EMC TEST REPORT
for
DIVA Laboratories Ltd.
LCD Monitor
Model No.: ER-191
Brand: AG NEOVO

Prepared for : DIVA Laboratories Ltd.
7F-8, No. 351, Sec. 2, Chung Shan Road,
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TABLE OF CONTENTS

Description Page

TEST REPORT VERIFICATION....5

1. SUMMARY OF STANDARDS AND RESULTS....6

1.1. Description of Standards and Results....6
1.2. Description of Compliance Criteria....7

2. GENERAL INFORMATION....8

2.1. Description of Device (EUT)....8
2.2. Tested Supporting System Details....9
2.3. Description of Test Facility....12
2.4. Measurement Uncertainty....13

3. CONDUCTED DISTURBANCE MEASUREMENT....14

3.1. Test Equipment....14
3.2. Block Diagram of Test Setup....14
3.3. Limits (EN 55011, Class B)....14
3.4. EUT's Configuration during Compliance Measurement....15
3.5. Operating Condition of EUT....15
3.6. Test Procedure....16
3.7. Conducted Disturbance Voltage Measurement Results....16

4. RADIATED DISTURBANCE MEASUREMENT....30

4.1. Test Equipment....30
4.2. Block Diagram of Test Setup....30
4.3. Limits (EN 55011, Group1/Class B)....31
4.4. EUT's Configuration during Compliance Measurement....31
4.5. Operating Condition of EUT....31
4.6. Test Procedure....32
4.7. Radiated Disturbance Measurement Results....32

5. DISCONTINUOUS DISTURBANCE EMISSION MEASUREMENT....56

5.1. Test Equipment....56
5.2. Block Diagram of Test Setup....56
5.3. Limits....57
5.4. EUT's Configuration during Compliance Measurement....57
5.5. Operating Condition of EUT....57
5.6. Test Procedure....58
5.7. Measurement Results....59

6. POWER HARMONICS AND FLICKER MEASUREMENT....61

6.1. Test Equipment....61
6.2. Block Diagram of Test Setup....61
6.3. Test Standard....61
6.4. EUT's Configuration during Compliance Measurement....61
6.5. Operating Condition of EUT....62
6.6. Test Results....62

7. ELECTROSTATIC DISCHARGE IMMUNITY TEST....66

7.1. Test Equipment....66
7.2. Block Diagram of Test Setup....66
7.3. Test Standard....67
7.4. Severity Levels and Performance Criterion....67
7.5. EUT's Configuration during Compliance Measurement....67
7.6. Operating Condition of EUT....67
7.7. Test Procedure....67
7.8. Test Results....68

8. RF FIELD STRENGTH IMMUNITY TEST....70

8.1. Test Equipment....70

8.2. Block Diagram of Test Setup 70
8.3. Test Standard 71
8.4. Severity Levels and Performance Criterion 71
8.5. EUT's Configuration during Compliance Measurement 71
8.6. Operating Condition of EUT 71
8.7. Test Procedure 72
8.8. Test Results 72

9. ELECTRICAL FAST TRANSIENT/BURST IMMUNITY TEST 74

9.1. Test Equipment 74
9.2. Block Diagram of Test Setup 74
9.3. Test Standard 74
9.4. Severity Levels and Performance Criterion 74
9.5. EUT's Configuration during Compliance Measurement 74
9.6. Operating Condition of EUT 74
9.7. Test Procedure 75
9.8. Test Results 75

10. SURGE IMMUNITY TEST 77

10.1. Test Equipment 77
10.2. Block Diagram of Test Setup 77
10.3. Test Standard 77
10.4. Severity Levels and Performance Criterion 77
10.5. EUT's Configuration during Compliance Measurement 77
10.6. Operating Condition of EUT 77
10.7. Test Procedure 78
10.8. Test Results 78

11. CONDUCTED DISTURBANCE IMMUNITY TEST 80

11.1. Test Equipment 80
11.2. Block Diagram of Test Setup 80
11.3. Test Standard 81
11.4. Severity Levels and Performance Criterion 81
11.5. EUT's Configuration during Compliance Measurement 81
11.6. Operating Condition of EUT 81
11.7. Test Procedure 81
11.8. Test Results 82

12. POWER FREQUENCY MAGNETIC FIELD IMMUNITY TEST 84

12.1. Test Equipment 84
12.2. Block Diagram of Test Setup 84
12.3. Test Standard 84
12.4. Severity Levels and Performance Criterion 84
12.5. EUT's Configuration during Compliance Measurement 84
12.6. Operating Condition of EUT 84
12.7. Test Procedure 85
12.8. Test Results 85

13. VOLTAGE DIPS AND INTERRUPTIONS IMMUNITY TEST 87

13.1. Test Equipment 87
13.2. Block Diagram of Test Setup 87
13.3. Test Standard 87
13.4. Severity Levels and Performance Criterion 87
13.5. EUT's Configuration during Compliance Measurement 88
13.6. Operating Condition of EUT 88
13.7. Test Procedure 88
13.8. Test Results 88

14. PHOTOGRAPHS 90

14.1. Photos of Conducted Disturbance Measurement 90
14.2. Photos of Radiated Disturbance Measurement at Semi-Anechoic Chamber 91
14.3. Photos of Radiated Disturbance Measurement at Open Area Test Site 92
14.4. Photos of Discontinuous Disturbance Emission Measurement 94
14.5. Photos of Harmonic and Voltage Fluctuations/Flicker Emission Measurement 95
14.6. Photos of Electrostatic Discharge Immunity Test 96

14.7. Photos of RF Field Strength Immunity Test 99
14.8. Photos of Electrical Fast Transient/Burst Immunity Test 101
14.9. Photos of Surge Immunity Test 101
14.10. Photos of Conducted Disturbance Immunity Test 102
14.11. Photos of Power Frequency Magnetic Field Immunity Test 103
14.12. Photos of Voltage Dips and Interruptions Immunity Test 104

APPENDIX I (Photos of EUT)

TEST REPORT VERIFICATION

Applicant	:	DIVA Laboratories Ltd.		
Manufacturer	:	DIVA Laboratories Ltd.		
EUT Description	:	LCD Monitor		
		(A) MODEL NO.	:	ER-191
		(B) BRAND	:	AG NEOVO
		(C) SERIAL NO.	:	N/A
		(D) POWER SUPPLY	:	AC 100-240V, 50/60Hz
		(E) TEST VOLTAGE	:	AC 230V, 50Hz

Measurement Standard Used:

EN 60601-1-2/2001+A1/2006: Electromagnetic Compatibility
Emission: EN 55011/1998 +A1/1999 +A2/2002 Class B,
EN 55014-1/2000 +A1/2001+A2/2002
【Only discontinuous disturbance measurement was performed】
EN 61000-3-2/2000 +A2/2005 and EN 61000-3-3/1995+ A1/2001+ A2/2005
Immunity: IEC 61000-4-2/2001, IEC 61000-4-3/2006, IEC 61000-4-4/2006,
IEC 61000-4-5/2005, IEC 61000-4-6/2006, IEC 61000-4-8/2001,
IEC 61000-4-11/2004

The device described above was tested by Audix Technology Corporation determine the maximum emission levels emanating from the device and the severity levels of the device can endure and its compliance criterion. The measurement results are contained in this test report and Audix Technology Corporation is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the EN 60601-1-2 official requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Audix Technology Corporation.

Date of Test : Aug. 22 ~ 29, 2007

Prepared by : Nita Lee Sep.04.2007
(Nita Lee/Assistant Administrator)

Test Engineer : Alex Deng Sep. 4. 2007
(Alex Deng/Section Manager)

Approved & Authorized Signer : Ben Cheng Sep.04.2007
(Ben Cheng/Section Manager)

1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION			
Description of Test Item	**Standard**	**Limits**	**Results**
Conducted disturbance	EN 55011/1998 +A1/1999+A2/2002	Group 1, Class B	PASS
Radiated disturbance	EN 55011/1998 +A1/1999+A2/2002	Group 1, Class B	PASS
Discontinuous disturbance emission	EN 55014-1/2000 +A1/2001+A2/2002	Section 4.2	PASS
Harmonic distortion	EN 61000-3-2/2000 +A2/2005	Class D	PASS
Voltage fluctuations and flicker	EN 61000-3-3/1995+ A1/2001+ A2/2005	Section 5	PASS
IMMUNITY (EN 60601-1-2)			
Description of Test Item	**Basic Standard**	**Performance Criteria**	**Results**
Electrostatic discharge (ESD)	IEC 61000-4-2/2001	Section 36.202.1 j	PASS
Radiated RF electromagnetic fields	IEC 61000-4-3/2006	Section 36.202.1 j	PASS
Electrical fast transients and bursts	IEC 61000-4-4/2006	Section 36.202.1 j	PASS
Surge	IEC 61000-4-5/2005	Section 36.202.1 j	PASS
Conducted disturbances, induced by RF fields	IEC 61000-4-6/2006	Section 36.202.1 j	PASS
Power frequency magnetic fields	IEC 61000-4-8/2001	Section 36.202.1 j	PASS
Voltage dips	IEC 61000-4-11/2004	Section 36.202.1 j	PASS
Voltage interruptions		Section 36.202.1 j	PASS & NOTE

N/A is an abbreviation for Not Applicable.

NOTE: means a deviation from the requirement of EN 60601-1-2 section 36.202.1 j), but it's allowed.

1.2. Description of Compliance Criteria

The equipment or system shall be able to provide the essential performance and remain safe. The following degradations associated with essential performance and safety shall not be allowed:

– component failures ;

– changes in programmable parameters;

– reset to factory defaults (manufacturer's presets)

– change of operating mode;

– false alarms;

– cessation or interruption of any intended operating, even if accompanied by an alarm;

– initiation of any unintended operation, including unintended or uncontrolled motion, even if accompanied by an alarm;

– error of a displayed numerical value sufficiently large to affect diagnosis or treatment;

– noise on a waveform in which the noise is indistinguishable from physiologically-produced signals or the noise interferes with interpretation of physiologically-produced signals;

– artefact or distortion in an image in which the artefact is indistinguishable from physiologically-produced signals or the distortion interferes with interpretation of physiologically-produced signals;

– failure of automatic diagnosis or treatment equipment and systems to diagnose or treat, even if accompanied by an alarm.

For equipment or system may exhibit degradation of performance (e.g. deviation from manufacturer's specifications) that does not affect essential performance or safety.

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Description	:	LCD Monitor
Model Number	:	ER-191
Brand	:	AG NEOVO
Applicant	:	DIVA Laboratories Ltd. 7F-8, No. 351, Sec. 2, Chung Shan Road, Chung Ho, Taipei Hsien, Taiwan
Manufacturer	:	DIVA Laboratories Ltd. 7F-8, No. 351, Sec. 2, Chung Shan Road, Chung Ho, Taipei Hsien, Taiwan
LCD Panel	:	NEC, Model NL128102BC29
Max. Resolution	:	D-Sub: 1600*1200/60Hz, 75kHz DVI: 1280*1024/60Hz, 64kHz
Scanning Frequency	:	Horizontal: 30kHz-80kHz Vertical: 50Hz-85Hz
D-Sub Cable-To PC	:	Shielded, Detachable, 1.8m Bonded two ferrite cores
DVI Cable-To PC	:	Shielded, Detachable, 1.8m Bonded a ferrite core
BNC Cable-To DVD	:	Shielded, Detachable, 3m (Video Cable*2+Component Cable*3)
Power Cord	:	Non-Shielded, Detachable, 1.8m (3 Pin)
Date of Receipt of Sample	:	Aug. 20, 2007
Date of Test	:	Aug. 22 ~ 29, 2007

2.2. Tested Supporting System Details

【For Conducted、Radiated、Discontinuous Disturbance Emission Measurements】

2.2.1. PC SYSTEM

Model Number	:	Aspire E560
Serial Number	:	PTS570500163804F7B2702
FCC ID	:	By DoC
BSMI ID	:	R33142
VGA Card	:	ASUS, M/N N62000/TD/128M/A, S/N 62C0AI014563 BSMI ID. R33005
Manufacturer	:	ACER
RS232 Cable	:	Shielded, Detachable, 1.8m
Power Cord	:	Non-Shielded, Detachable, 1.8m

2.2.2. TRINITRON COLOR VIDEO MONITOR

Model Number	:	PVM-14L2
Serial Number	:	2007216
Brand	:	SONY
Manufacturer	:	SONY Corp.
FCC ID	:	By DoC
BSMI ID.	:	T33021
S-Video Cable	:	Shielded, Detachable, 1.0m
Video Cable*2	:	Shielded, Detachable, 1.8m
Component Cable*3	:	Shielded, Detachable, 1.8m
Power Cord	:	Non-Shielded, Detachable, 1.5m

2.2.3. KEYBOARD

Model Number	:	AS-KBA000
Serial Number	:	C0602118423
FCC ID	:	By DoC
BSMI ID	:	T3A002
Manufacturer	:	Silitek (Brand: ASUS)
Data Cable	:	Non-Shielded, Undetachable, 1.8m

2.2.4. DOT MATRIX PRINTER

Model Number	:	KX-P2135
Serial Number	:	8DMCNC02144
FCC ID	:	ACJ5Z6KX-P2135
BSMI ID	:	3872A371
Manufacturer	:	Matsushita (Brand: Panasonic)
Data Cable	:	Shielded, Detachable, 1.5m
Power Cord	:	Non-Shielded, Detachable, 1.8m

2.2.5. MOUSE

Model Number	:	M-UV69a
Serial Number	:	HCB60403088
FCC ID	:	By DoC
BSMI ID	:	T4A126
Manufacturer	:	LOGITECH (Brand: ASUS)
Data Cable	:	Non-Shielded, Undetachable, 1.8m

2.2.6. USB 2.0 STORAGE MEDIA

Model Number	:	USM64U2
Serial Number	:	N/A
FCC ID	:	By DoC
BSMI DoC ID.	:	D33021
Manufacturer	:	SONY
USB Data Cable	:	Shielded, Detachable, 1.8m

2.2.7. MICROPHONE

Model Number	:	HD-303
Serial Number	:	N/A
Manufacturer	:	Multimedia Microphone System
Data Cable	:	Non-Shielded, Undetachable, 2.2m

2.2.8. SPEAKER

Model Number	:	J-008
Serial Number	:	J80547826
Manufacturer	:	(J-S) JAZZ HIPSTER
Data Cable	:	Non-Shielded, Undetachable, 1m

2.2.9. WALKMAN

Model Number	:	RQ-P35LT-K
Serial Number	:	HA08631
Manufacturer	:	Panasonic
Data Cable	:	Non-Shielded, Detachable, 1.8m

2.2.10. DVD PLAYER

Model Number	:	DV-S6D
Serial Number	:	TLKR003935TA
Manufacturer	:	Pioneer
S-Video Cable	:	Shielded, Detachable, 1.0m
Power Cord	:	Non-Shielded, Detachable, 2.0m

2.2.11.SIGNAL GENERATOR

Model Number	:	LT443D
Serial Number	:	DIVA02730
Manufacturer	:	DIVA
SDI Cable	:	Shielded, Detachable, 1.8m
Power Cord	:	Non-Shielded, Detachable, 1.8m

2.2.12.75Ω IMPEDANCE

Data Cable	:	Shielded, Detachable, 1.8m

【For Harmonic、Flicker Measurements and EMS Immunity Tests】

2.2.13.PC SYSTEM

Model Number	:	D530 CMT
Serial Number	:	SGH34105H1
FCC ID	:	By DoC
BSMI ID	:	R33001
VGA Card	:	ASUS, M/N N62000/TD/128M/A, S/N 62C0AI014563 BSMI ID. R33005
Manufacturer	:	HP
RS232 Cable	:	Shielded, Detachable, 1.8m
Power Cord	:	Non-Shielded, Detachable, 1.8m

2.2.14.TRINITRON COLOR VIDEO MONITOR

Model Number	:	PVM-14L2
Serial Number	:	2007216
Brand	:	SONY
Manufacturer	:	SONY Corp.
FCC ID	:	By DoC
BSMI ID.	:	T33021
S-Video Cable	:	Shielded, Detachable, 1.0m
Video Cable*2	:	Shielded, Detachable, 1.8m
Component Cable*3	:	Shielded, Detachable, 1.8m
Power Cord	:	Non-Shielded, Detachable, 1.5m

2.2.15.PS2 KEYBOARD

Model Number	:	SDM4700P
Serial Number	:	B69360HLPPD0TL
FCC ID	:	By DoC
BSMI ID	:	R33018
Manufacturer	:	Samsung (Brand : HP)
Data Cable	:	Non-Shielded, Undetachable, 1.8m

2.2.16. PS2 MOUSE

Model Number	:	M-S69
Serial Number	:	F6AB70S5BOY1NWZ
FCC ID	:	JNZ211443
BSMI ID	:	R41126
Manufacturer	:	HP
Data Cable	:	Non-Shielded, Undetachable, 1.8m

2.2.17. DVD PLAYER

Model Number	:	DV-S6D
Serial Number	:	TLKR003935TA
Manufacturer	:	Pioneer
S-Video Cable	:	Shielded, Detachable, 1.0m
Power Cord	:	Non-Shielded, Detachable, 2.0m

2.2.18. SIGNAL GENERATOR

Model Number	:	LT443D
Serial Number	:	DIVA02730
Manufacturer	:	DIVA
SDI Cable	:	Shielded, Detachable, 1.8m
Power Cord	:	Non-Shielded, Detachable, 1.8m

2.2.19. 75Ω IMPEDANCE

Data Cable	:	Shielded, Detachable, 1.8m

2.3. Description of Test Facility

Name of Firm	:	**Audix Technology Corporation** **EMC Department** No. 53-11, Tin-Fu Tsun, Lin-Kou, Taipei, Taiwan.
Test Facility & Location (C3/R6/AC)	:	**No. 3 Shielded Room &** **No. 6 Open Area Test Site** No. 67-4, Tin-Fu Tsun, Lin-Kou, Taipei, Taiwan. **Semi-Anechoic Chamber &** **Immunity Test Area** No. 53-11, Tin-Fu Tsun, Lin-Kou, Taipei County, Taiwan, R.O.C.
NVLAP Lab. Code	:	200077-0

(NVLAP is a NATA accredited body under Mutual Recognition Agreement)

DAR-Registration No.	:	DAT-P-145/03-01

2.4. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB), (V/m)
Conduction Test	150kHz~30MHz	± 1.73dB
Radiation Test (Distance: 3m)	30MHz~300MHz	± 2.91dB
	300MHz~1000MHz	± 2.94dB
Radiation Test (Distance: 10m)	30MHz~300MHz	± 2.99dB
	300MHz~1000MHz	± 2.73dB
RF Field Strength Susceptibility Test	80MHz~1000MHz	±0.84V/m

Remark：Uncertainty = $ku_c(y)$

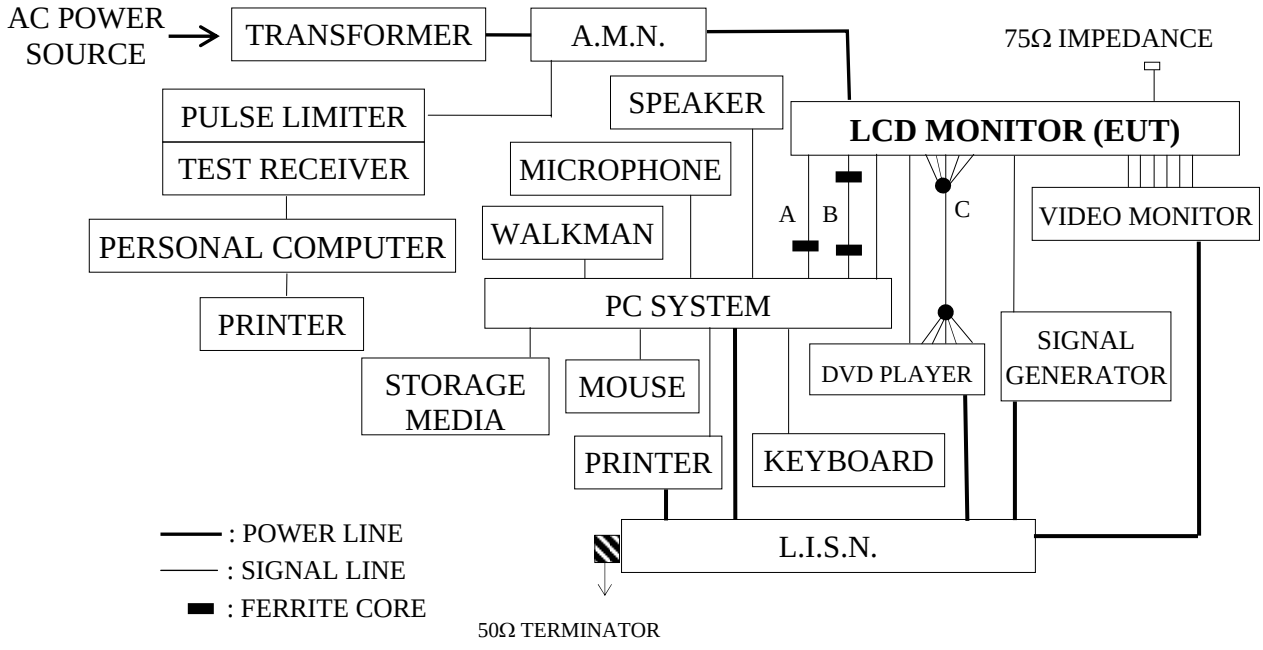
3. CONDUCTED DISTURBANCE MEASUREMENT

3.1. Test Equipment

The following test equipment was used during the conducted disturbance measurement：(No. 3 Shielded Room)

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	Rohde & Schwarz	ESCS 30	100039	Jun. 25, 07’	Jun. 24, 08’
2.	A.M.N.	Kyoritsu	KNW-244C	8-1373-5	Aug. 13, 07’	Aug. 12, 08’
3.	L.I.S.N.	Kyoritsu	KNW-407	8-1370-9	Jun. 06, 07’	Jun. 05, 08’
4.	Pulse Limiter	R & S	ESH3Z2	100041	Mar. 10, 07’	Mar. 09, 08’

3.2. Block Diagram of Test Setup



A : DVI CABLE
B : D-SUB CABLE
C : BNC CABLE (Video Cable*2+Component Cable*3)

3.3. Limits (EN 55011, Class B)

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level	Average Level
150kHz ~ 500kHz	66 ~ 56 dBμV	56 ~ 46 dBμV
500kHz ~ 5MHz	56 dBμV	46 dBμV
5MHz ~ 30MHz	60 dBμV	50 dBμV

Remark1.: If the average limit is met when using a Quasi-Peak detector, the EUT shall be deemed to meet both limits and measurement with the average detector is unnecessary.

2.: The lower limit applies at the band edges.

3.4. EUT's Configuration during Compliance Measurement

The following equipments were installed on RF LINE VOLTAGE measurement to meet EN 55011 (CISPR Pub.11, Class B) requirement and operating in a manner which tends to maximize its emission characteristics in a normal application.

3.4.1. LCD Monitor (EUT)

Model Number	:	ER-191
Brand	:	AG NEOVO
Serial Number	:	N/A
LCD Panel	:	NEC, Model NL128102BC29
Max. Resolution	:	D-Sub: 1600*1200/60Hz, 75kHz DVI: 1280*1024/60Hz, 64kHz
D-Sub Cable-To PC	:	Shielded, Detachable, 1.8m Bonded two ferrite cores
DVI Cable-To PC	:	Shielded, Detachable, 1.8m Bonded a ferrite core
BNC Cable-To DVD	:	Shielded, Detachable, 3m (Video Cable*2+Component Cable*3)
Power Cord	:	Non-Shielded, Detachable, 1.8m (3 Pin)

3.4.2. Supporting System : As in Section 2.2.

(For Conducted & Radiated Emission Measurements)

3.5. Operating Condition of EUT

3.5.1. Setup the EUT and simulator as shown on 3.2.

3.5.2. Turned on the power of all equipment.

3.5.3. The PC system read data from disk.

3.5.4. PC system performed the EMI self-test program "H-Win" by windows XP and sent "H" characters to the LCD Monitor (EUT), and then the screen of LCD Monitor (EUT) displayed pattern "H" by EUT's resolution via D-Sub or DVI.

3.5.5. DVD Player sent the "Color Bar" image to LCD Monitor (EUT), then the screen of LCD Monitor displayed image via S-Video input or AV input or Component Video input.

3.5.6. Signal Generator sent the "Color Bar" image to LCD Monitor (EUT), then the screen of LCD Monitor displayed image via SDI input.

3.5.7. The other peripheral devices were drove and operated in turn during all testing.

3.5.8. Repeat above procedure from 3.5.3. to 3.5.7.

3.6. Test Procedure

The EUT was put on table which was above the ground by 80cm and its power cord connected to the AC mains through an Artificial Mains Network (A.M.N.). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provided a 50 ohm coupling impedance for the measuring equipment. Both sides of A.C. line were checked to find out the maximum conducted emission according to EN 55011 (CISPR 11) Class B regulations during conducted emission measurement.

The bandwidth of the R&S Test Receiver ESCS30 was set at 9kHz.

The frequency range from 150kHz to 30MHz was checked using a peak detector.

The all reading of measurements were with the Quasi-Peak detector and Average detector. (Remark: If the Average limit is met when using a Quasi-Peak detector, the Average detector is unnecessary)

3.7. Conducted Disturbance Voltage Measurement Results

PASSED. (All emissions not reported below are too low against the prescribed limits.)

EUT with following test mode was measured during this section testing and selected the **worst test modes (Mode 3、9、10)** to read Q.P and Average value, all the test results are listed in next pages.

EUT：LCD Monitor Model No.: ER-191

Test Date**:** Aug. 24, 2007 Temperature**:** 25℃ Humidity**:** 42%

The details of test modes and reference test data are as follows：

	Mode	Input	Display, Resolution/ Frequency	Reference Test Data No.	
				Line	Neutral
	1.	D-Sub	H Pattern, 800*600/60Hz	# 36	# 35
	2.		H Pattern, 1280*1024/75Hz	# 40	# 39
*	**3.**		**H Pattern, 1600*1200/60Hz**	**# 37**	**# 38**
	4.	DVI	H Pattern, 640*480/60Hz	# 29	# 30
	5.		H Pattern, 1024*768/60Hz	# 32	# 31
	6.		H Pattern, 1280*1024/60Hz	# 33	# 34
	7.	S IN	Color Bar Image	# 25	# 26
	8.	AV IN	Color Bar Image	# 28	# 27
*	**9.**	**COMPONENT VIDEO IN**	**Color Bar Image**	**# 24**	**# 23**
*	**10.**	**SDI IN**	**Color Bar Image**	**# 21**	**# 22**

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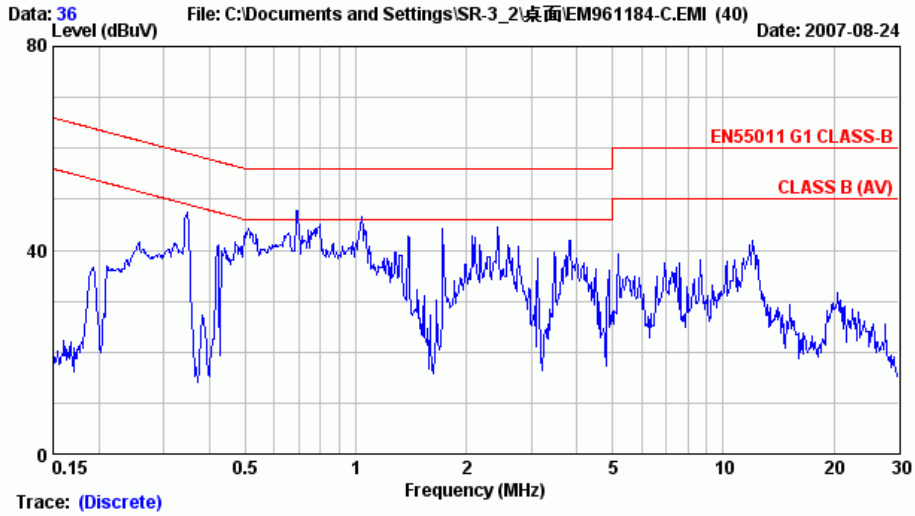


```
Site          : NO.3 Shielded Room          Data     : 36
Condition     : KNW-244C                    Phase    : LINE
Limit         : EN55011 G1 CLASS-B
Env. / Ins.   : 25*C/42%  ESCS30            Engineer: Gary-Lin
EUT           : LCD Monitor M/N:ER-191
Power Rating  : 230Vac/50Hz
Test Mode     : 800*600/60Hz(D-SUB)
```

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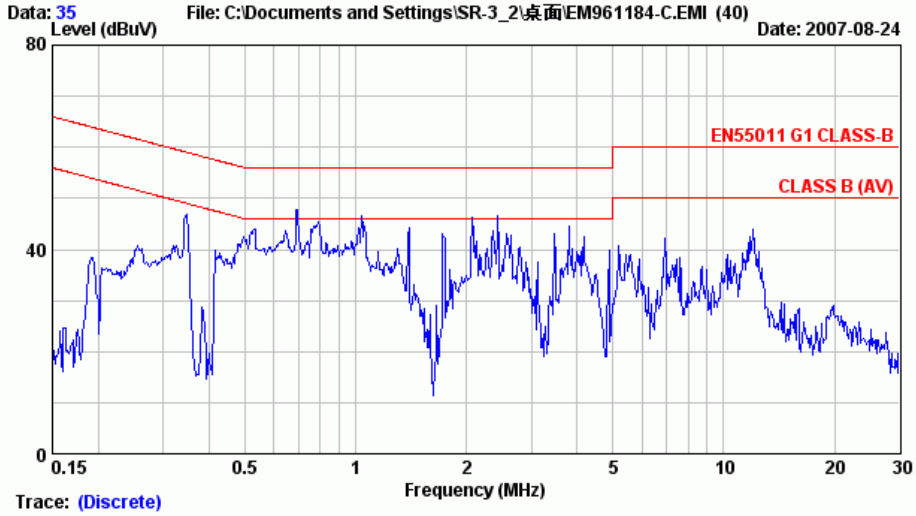


```
Site          : NO.3 Shielded Room          Data     : 35
Condition     : KNW-244C                    Phase    : NEUTRAL
Limit         : EN55011 G1 CLASS-B
Env. / Ins.   : 25*C/42%  ESCS30            Engineer: Gary-Lin
EUT           : LCD Monitor M/N:ER-191
Power Rating  : 230Vac/50Hz
Test Mode     : 800*600/60Hz(D-SUB)
```

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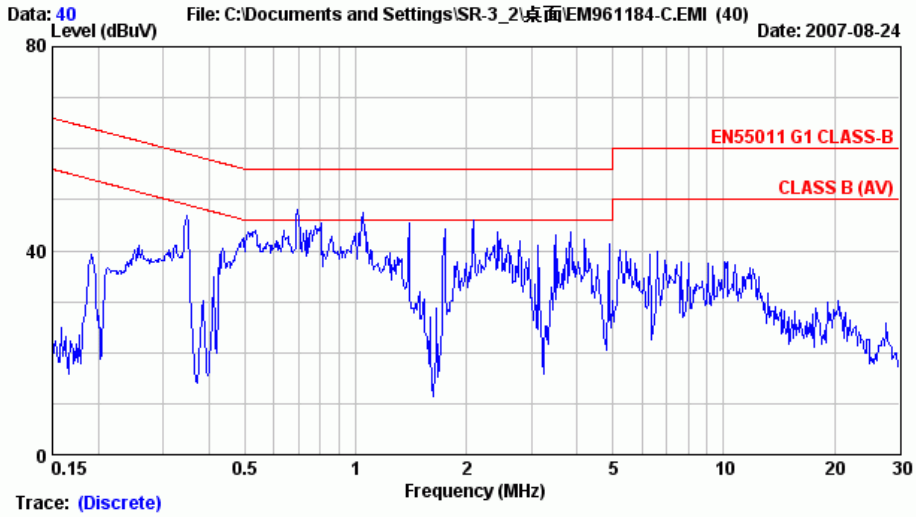


```
Site          : NO.3 Shielded Room          Data     : 40
Condition     : KNW-244C                    Phase    : LINE
Limit         : EN55011 G1 CLASS-B
Env. / Ins.   : 25*C/42%  ESCS30            Engineer: Gary-Lin
EUT           : LCD Monitor M/N:ER-191
Power Rating  : 230Vac/50Hz
Test Mode     : 1280*1024/75Hz(D-SUB)
```

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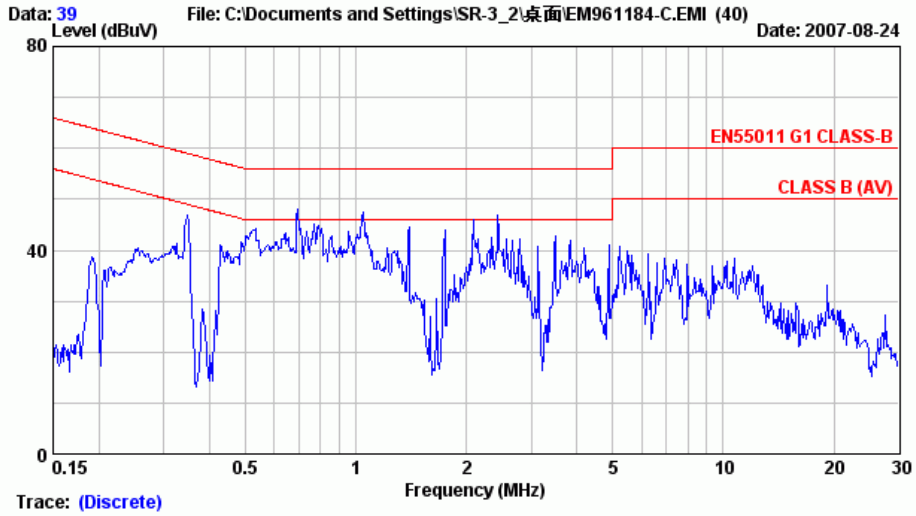


```
Site          : NO.3 Shielded Room          Data     : 39
Condition     : KNW-244C                    Phase    : NEUTRAL
Limit         : EN55011 G1 CLASS-B
Env. / Ins.   : 25*C/42%  ESCS30            Engineer: Gary-Lin
EUT           : LCD Monitor M/N:ER-191
Power Rating  : 230Vac/50Hz
Test Mode     : 1280*1024/75Hz(D-SUB)
```

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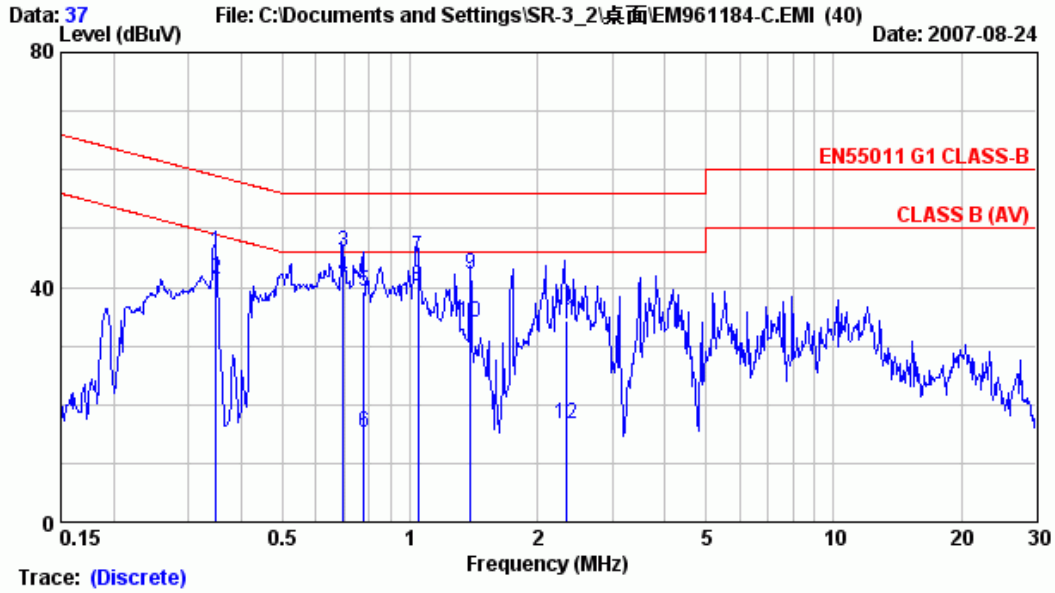

Site : NO.3 Shielded Room
Condition : KNW-244C
Limit : EN55011 G1 CLASS-B
Env. / Ins. : 25*C/42% ESCS30
EUT : LCD Monitor M/N:ER-191
Power Rating : 230Vac/50Hz
Test Mode : 1600*1200/60Hz(D-SUB)

Data : 37
Phase : LINE
Engineer: Gary-Lin

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.349	0.10	0.20	45.81	46.11	58.99	12.88	QP
2	0.349	0.10	0.20	41.15	41.45	48.99	7.54	AVERAGE
3	0.695	0.10	0.20	45.59	45.89	56.00	10.11	QP
4	0.695	0.10	0.20	41.32	41.62	46.00	4.38	AVERAGE
5	0.779	0.10	0.20	39.09	39.39	56.00	16.61	QP
6	0.779	0.10	0.20	14.81	15.11	46.00	30.89	AVERAGE
7	1.044	0.10	0.40	44.54	45.04	56.00	10.96	QP
8	1.044	0.10	0.40	39.52	40.02	46.00	5.98	AVERAGE
9	1.393	0.10	0.40	41.71	42.21	56.00	13.79	QP
10	1.393	0.10	0.40	33.50	34.00	46.00	12.00	AVERAGE
11	2.330	0.12	0.40	33.63	34.15	56.00	21.85	QP
12	2.330	0.12	0.40	16.07	16.59	46.00	29.41	AVERAGE

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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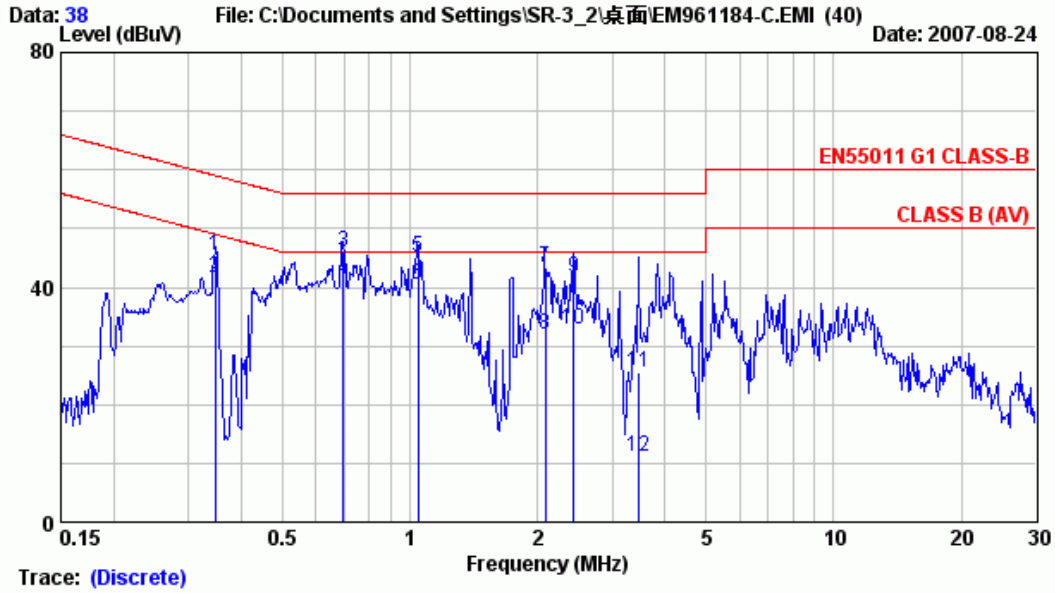

Site : NO.3 Shielded Room
Condition : KNW-244C
Limit : EN55011 G1 CLASS-B
Env. / Ins. : 25*C/42% ESCS30
EUT : LCD Monitor M/N:ER-191
Power Rating : 230Vac/50Hz
Test Mode : 1600*1200/60Hz(D-SUB)

Data : 38
Phase : NEUTRAL
Engineer: Gary-Lin

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.347	0.10	0.20	45.18	45.48	59.03	13.55	QP
2	0.347	0.10	0.20	41.30	41.60	49.03	7.43	AVERAGE
3	0.696	0.10	0.20	45.75	46.05	56.00	9.95	QP
4	0.696	0.10	0.20	41.01	41.31	46.00	4.69	AVERAGE
5	1.044	0.11	0.40	44.64	45.15	56.00	10.85	QP
6	1.044	0.11	0.40	39.98	40.49	46.00	5.51	AVERAGE
7	2.085	0.20	0.40	42.67	43.27	56.00	12.73	QP
8	2.085	0.20	0.40	31.31	31.91	46.00	14.09	AVERAGE
9	2.434	0.20	0.40	41.01	41.61	56.00	14.39	QP
10	2.434	0.20	0.40	32.33	32.93	46.00	13.07	AVERAGE
11	3.450	0.20	0.40	24.75	25.35	56.00	30.65	QP
12	3.450	0.20	0.40	10.55	11.15	46.00	34.85	AVERAGE

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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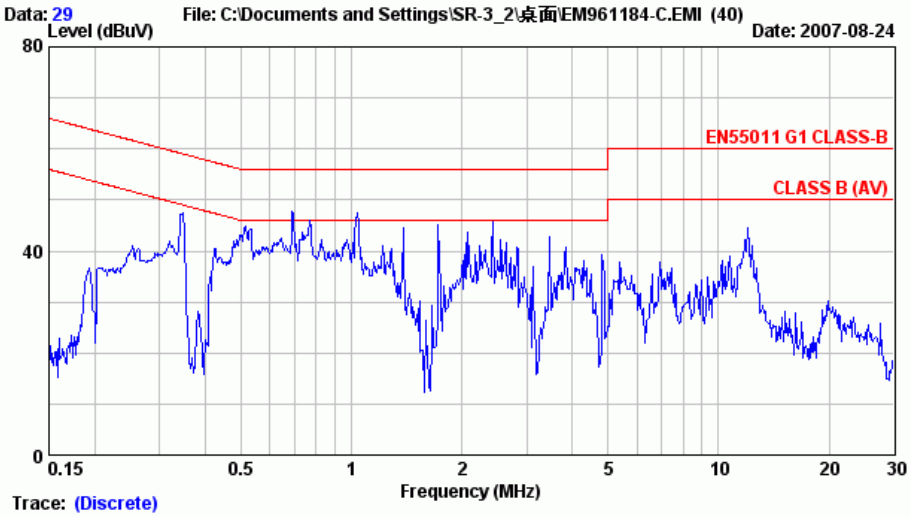

Site	: NO.3 Shielded Room	Data	: 29
Condition	: KNW-244C	Phase	: LINE
Limit	: EN55011 G1 CLASS-B		
Env. / Ins.	: 25*C/42% ESCS30	Engineer:	Gary-Lin
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac/50Hz		
Test Mode	: 640*480/60Hz(DVI)		

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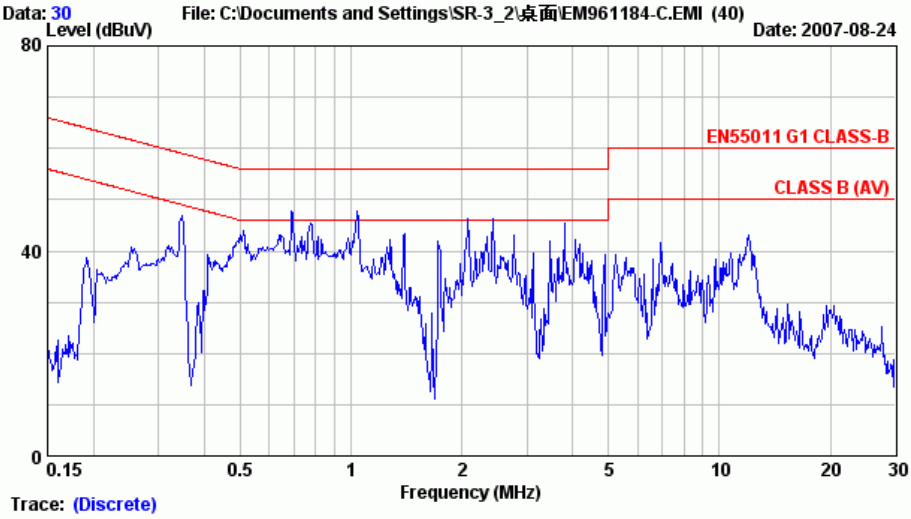

Site	: NO.3 Shielded Room	Data	: 30
Condition	: KNW-244C	Phase	: NEUTRAL
Limit	: EN55011 G1 CLASS-B		
Env. / Ins.	: 25*C/42% ESCS30	Engineer:	Gary-Lin
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac/50Hz		
Test Mode	: 640*480/60Hz(DVI)		

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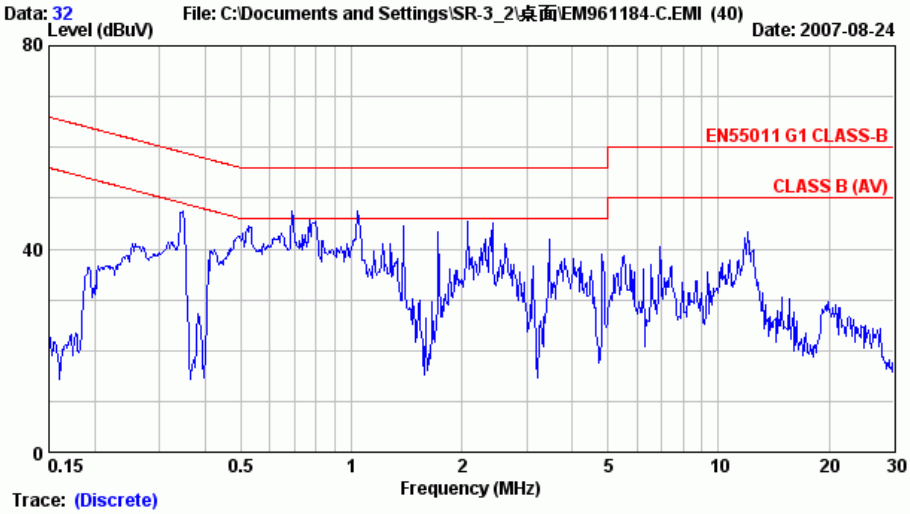

Site	: NO.3 Shielded Room	Data	: 32
Condition	: KNW-244C	Phase	: LINE
Limit	: EN55011 G1 CLASS-B		
Env. / Ins.	: 25*C/42% ESCS30	Engineer:	Gary-Lin
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac/50Hz		
Test Mode	: 1024*768/60Hz(DVI)		

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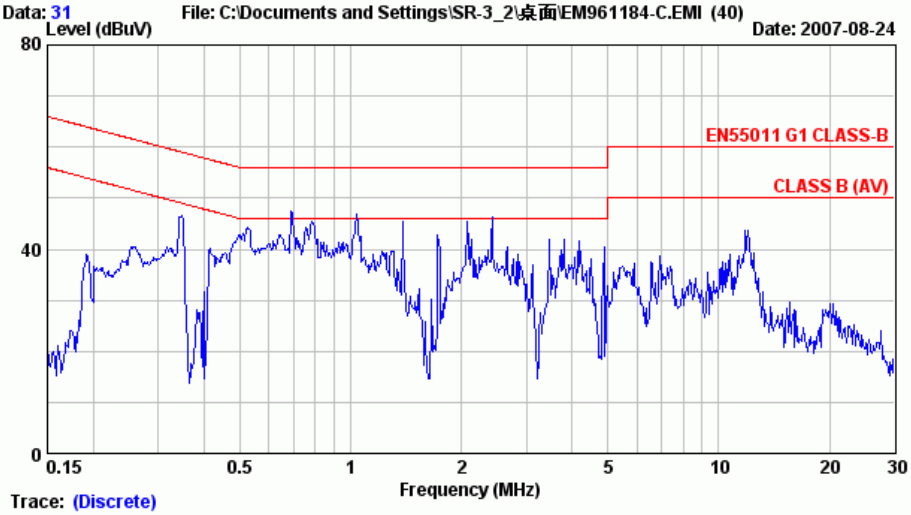

Site	: NO.3 Shielded Room	Data	: 31
Condition	: KNW-244C	Phase	: NEUTRAL
Limit	: EN55011 G1 CLASS-B		
Env. / Ins.	: 25*C/42% ESCS30	Engineer:	Gary-Lin
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac/50Hz		
Test Mode	: 1024*768/60Hz(DVI)		

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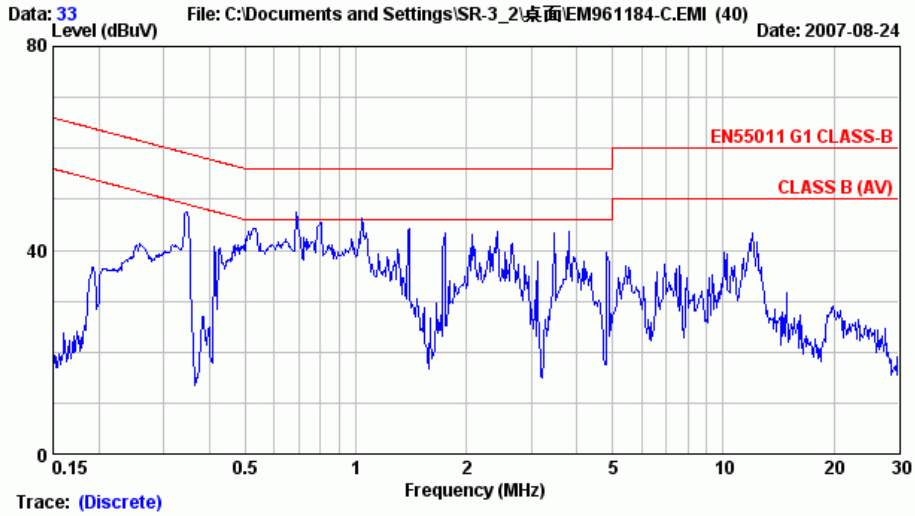

Site	: NO.3 Shielded Room	Data	: 33
Condition	: KNW-244C	Phase	: LINE
Limit	: EN55011 G1 CLASS-B		
Env. / Ins.	: 25*C/42% ESCS30	Engineer:	Gary-Lin
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac/50Hz		
Test Mode	: 1280*1024/60Hz(DVI)		

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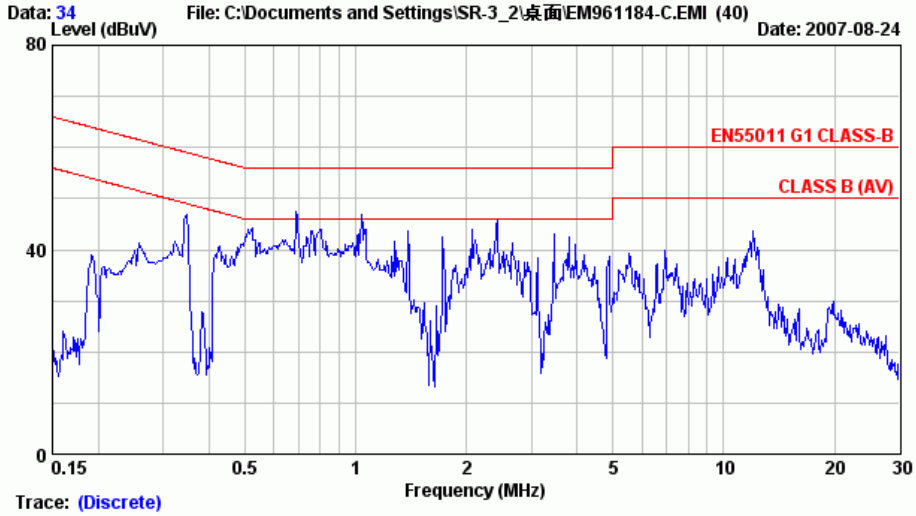

Site	: NO.3 Shielded Room	Data	: 34
Condition	: KNW-244C	Phase	: NEUTRAL
Limit	: EN55011 G1 CLASS-B		
Env. / Ins.	: 25*C/42% ESCS30	Engineer:	Gary-Lin
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac/50Hz		
Test Mode	: 1280*1024/60Hz(DVI)		

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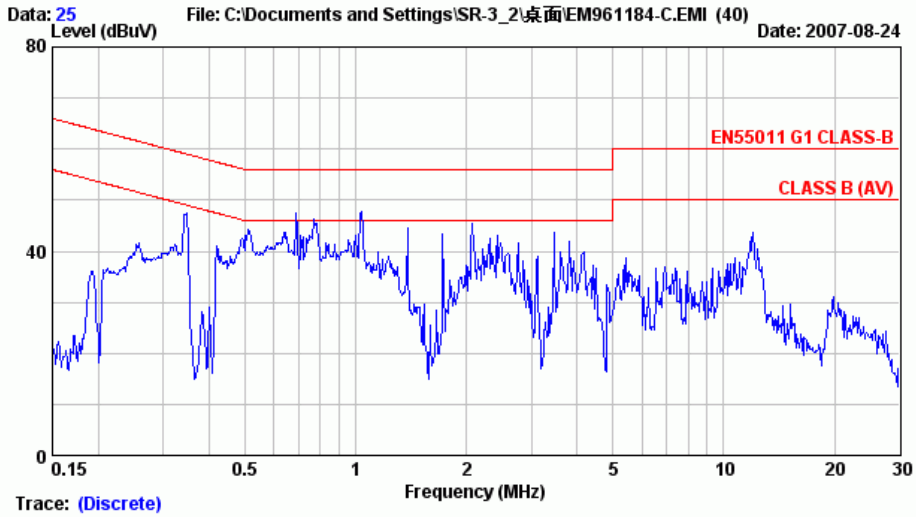

Site	: NO.3 Shielded Room	Data	: 25
Condition	: KNW-244C	Phase	: LINE
Limit	: EN55011 G1 CLASS-B		
Env. / Ins.	: 25*C/42% ESCS30	Engineer:	Gary-Lin
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac/50Hz		
Test Mode	: S IN		

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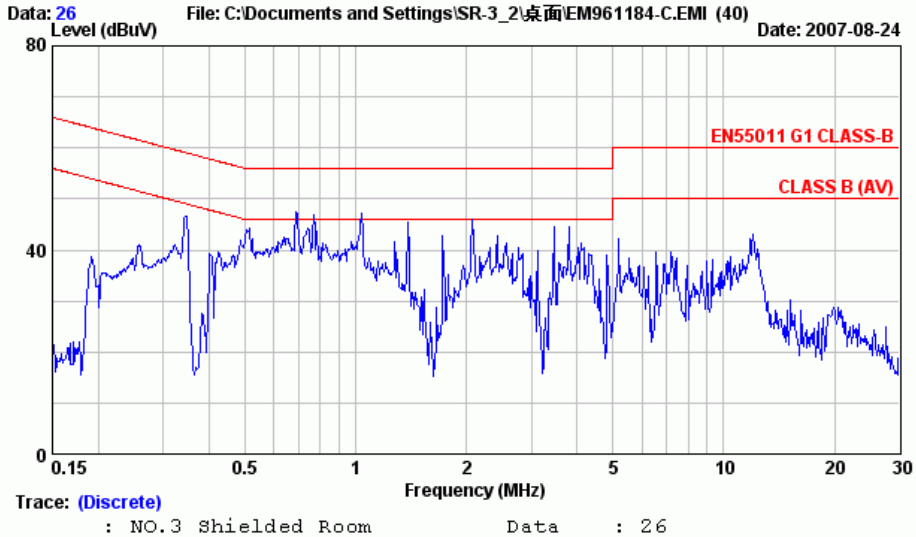

Site	: NO.3 Shielded Room	Data	: 26
Condition	: KNW-244C	Phase	: NEUTRAL
Limit	: EN55011 G1 CLASS-B		
Env. / Ins.	: 25*C/42% ESCS30	Engineer:	Gary-Lin
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac/50Hz		
Test Mode	: S IN		

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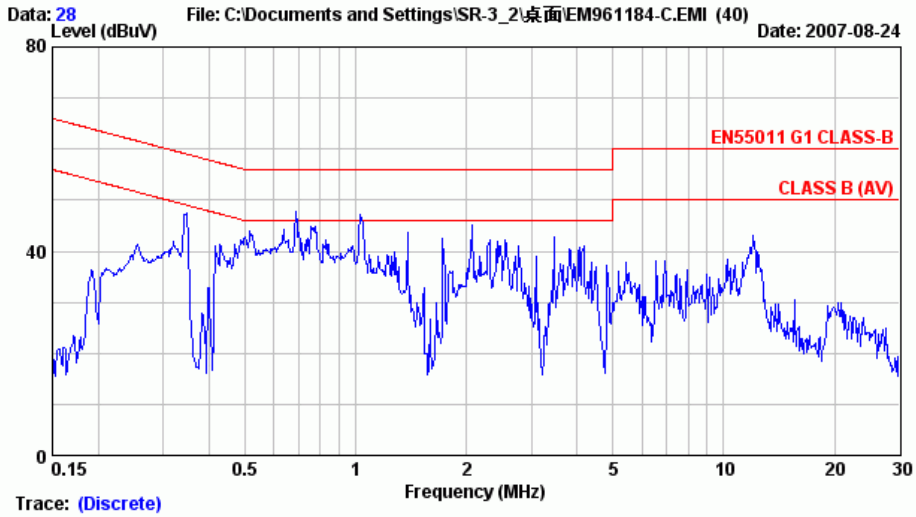

Site	: NO.3 Shielded Room	Data	: 28
Condition	: KNW-244C	Phase	: LINE
Limit	: EN55011 G1 CLASS-B		
Env. / Ins.	: 25*C/42% ESCS30	Engineer:	Gary-Lin
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac/50Hz		
Test Mode	: AV IN		

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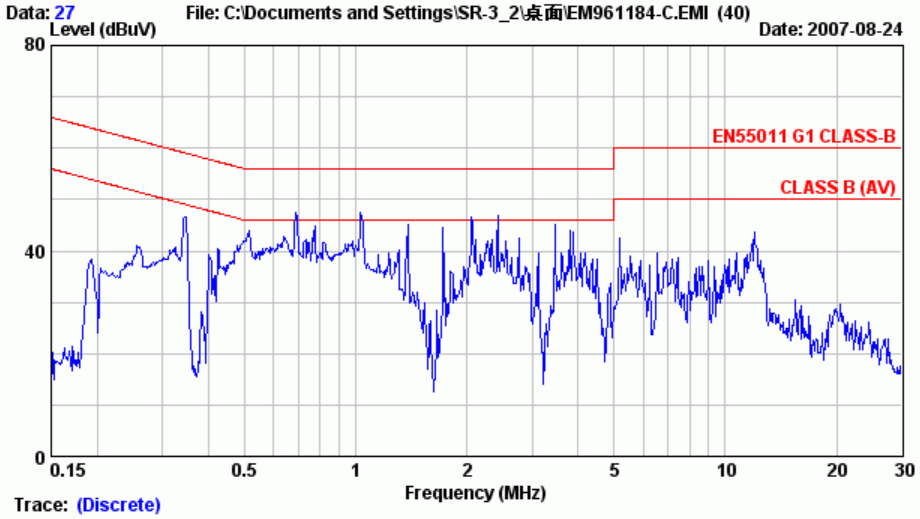

Site	: NO.3 Shielded Room	Data	: 27
Condition	: KNW-244C	Phase	: NEUTRAL
Limit	: EN55011 G1 CLASS-B		
Env. / Ins.	: 25*C/42% ESCS30	Engineer:	Gary-Lin
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac/50Hz		
Test Mode	: AV IN		

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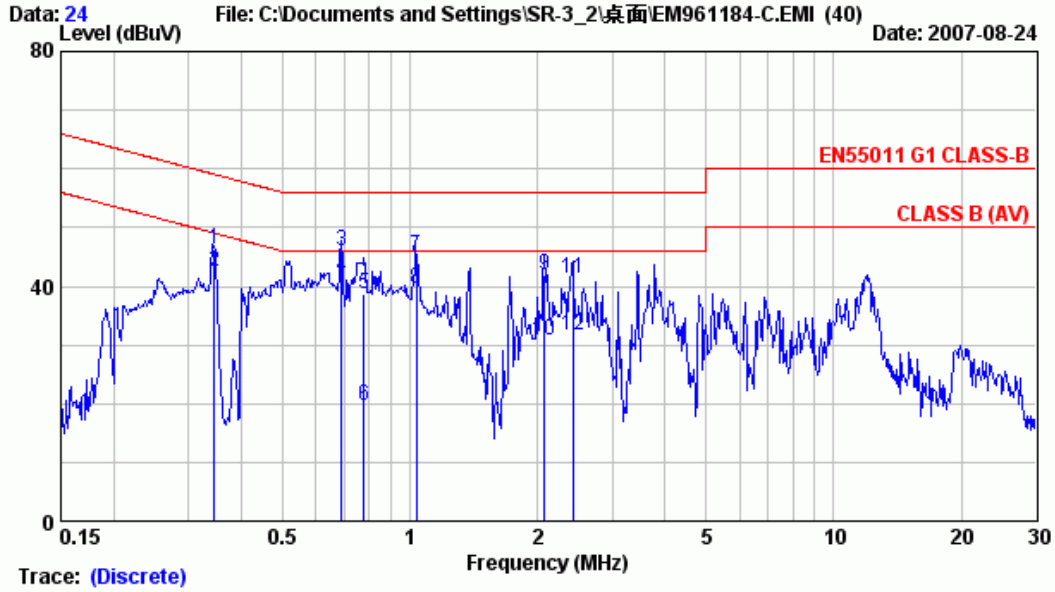

Site : NO.3 Shielded Room
Condition : KNW-244C
Limit : EN55011 G1 CLASS-B
Env. / Ins. : 25*C/42% ESCS30
EUT : LCD Monitor M/N:ER-191
Power Rating : 230Vac/50Hz
Test Mode : COMPONENT IN

Data : 24
Phase : LINE
Engineer: Gary-Lin

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.345	0.10	0.20	45.91	46.21	59.08	12.87	QP
2	0.345	0.10	0.20	42.28	42.58	49.08	6.50	AVERAGE
3	0.691	0.10	0.20	45.67	45.97	56.00	10.03	QP
4	0.691	0.10	0.20	41.32	41.62	46.00	4.38	AVERAGE
5	0.780	0.10	0.20	38.33	38.63	56.00	17.37	QP
6	0.780	0.10	0.20	19.33	19.63	46.00	26.37	AVERAGE
7	1.036	0.10	0.40	44.64	45.14	56.00	10.86	QP
8	1.036	0.10	0.40	38.98	39.48	46.00	6.52	AVERAGE
9	2.080	0.11	0.40	41.52	42.03	56.00	13.97	QP
10	2.080	0.11	0.40	30.35	30.86	46.00	15.14	AVERAGE
11	2.423	0.13	0.40	40.89	41.42	56.00	14.58	QP
12	2.423	0.13	0.40	30.98	31.51	46.00	14.49	AVERAGE

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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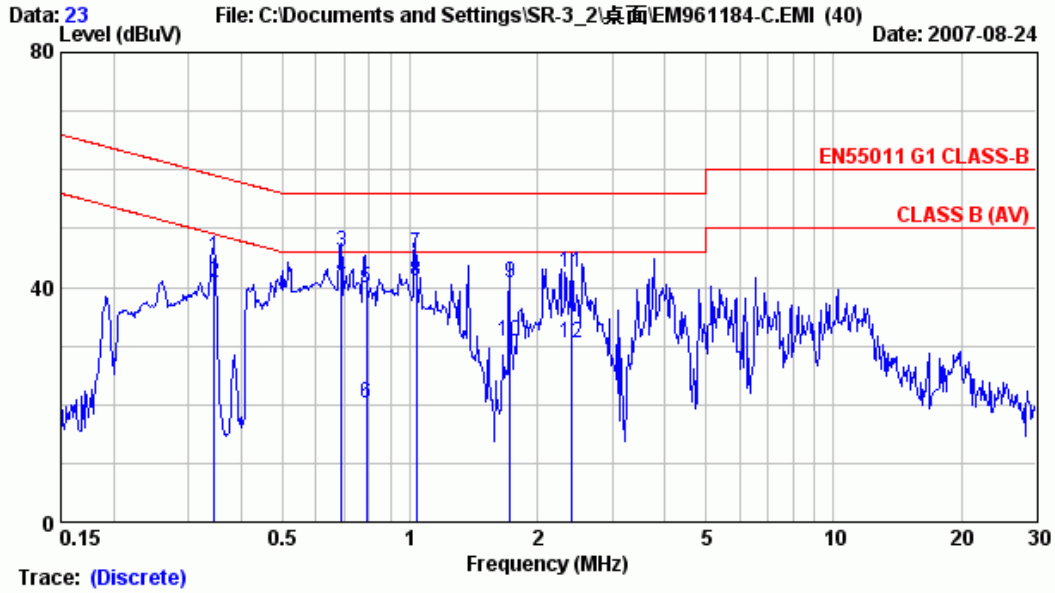

Site : NO.3 Shielded Room
Condition : KNW-244C
Limit : EN55011 G1 CLASS-B
Env. / Ins. : 25*C/42% ESCS30
EUT : LCD Monitor M/N:ER-191
Power Rating : 230Vac/50Hz
Test Mode : COMPONENT IN

Data : 23
Phase : NEUTRAL
Engineer: Gary-Lin

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.345	0.10	0.20	44.92	45.22	59.07	13.85	QP
2	0.345	0.10	0.20	40.40	40.70	49.07	8.37	AVERAGE
3	0.691	0.10	0.20	45.75	46.05	56.00	9.95	QP
4	0.691	0.10	0.20	41.25	41.55	46.00	4.45	AVERAGE
5	0.789	0.10	0.20	39.64	39.94	56.00	16.06	QP
6	0.789	0.10	0.20	19.93	20.23	46.00	25.77	AVERAGE
7	1.035	0.10	0.40	45.09	45.59	56.00	10.41	QP
8	1.035	0.10	0.40	40.47	40.97	46.00	5.03	AVERAGE
9	1.726	0.18	0.40	40.20	40.78	56.00	15.22	QP
10	1.726	0.18	0.40	30.28	30.86	46.00	15.14	AVERAGE
11	2.405	0.20	0.40	41.86	42.46	56.00	13.54	QP
12	2.405	0.20	0.40	29.76	30.36	46.00	15.64	AVERAGE

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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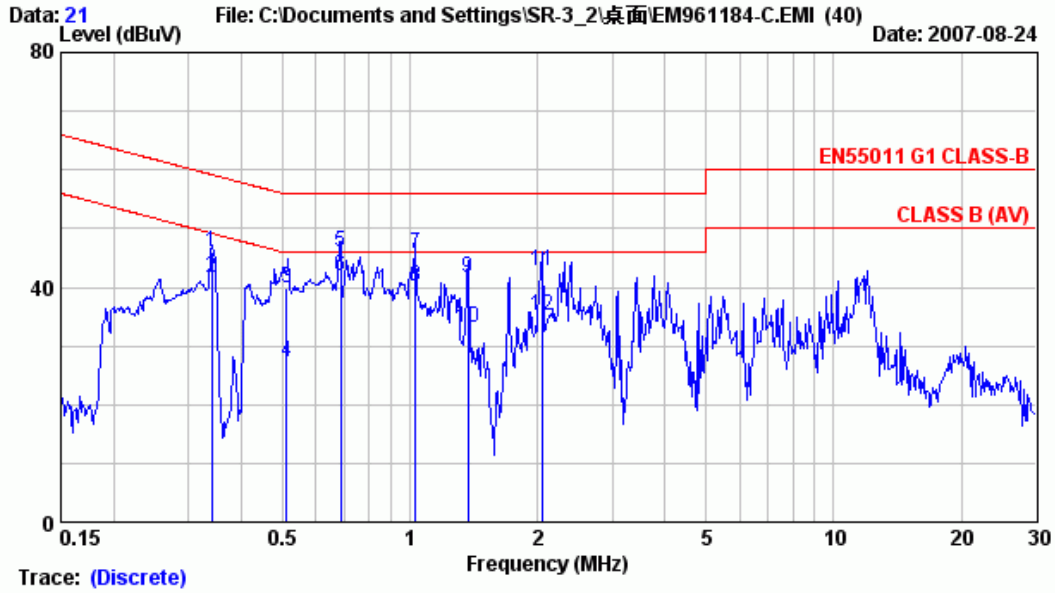

Site : NO.3 Shielded Room
Condition : KNW-244C
Limit : EN55011 G1 CLASS-B
Env. / Ins. : 25*C/42% ESCS30
EUT : LCD Monitor M/N:ER-191
Power Rating : 230Vac/50Hz
Test Mode : SDI IN

Data : 21
Phase : LINE
Engineer: Gary-Lin

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.341	0.10	0.20	45.67	45.97	59.17	13.20	QP
2	0.341	0.10	0.20	41.39	41.69	49.17	7.48	AVERAGE
3	0.510	0.10	0.20	39.69	39.99	56.00	16.01	QP
4	0.510	0.10	0.20	26.98	27.28	46.00	18.72	AVERAGE
5	0.687	0.10	0.20	45.69	45.99	56.00	10.01	QP
6	0.687	0.10	0.20	41.56	41.86	46.00	4.14	AVERAGE
7	1.030	0.10	0.40	45.07	45.57	56.00	10.43	QP
8	1.030	0.10	0.40	39.66	40.16	46.00	5.84	AVERAGE
9	1.373	0.10	0.40	41.12	41.62	56.00	14.38	QP
10	1.373	0.10	0.40	32.60	33.10	46.00	12.90	AVERAGE
11	2.053	0.10	0.40	42.22	42.72	56.00	13.28	QP
12	2.053	0.10	0.40	34.56	35.06	46.00	10.94	AVERAGE

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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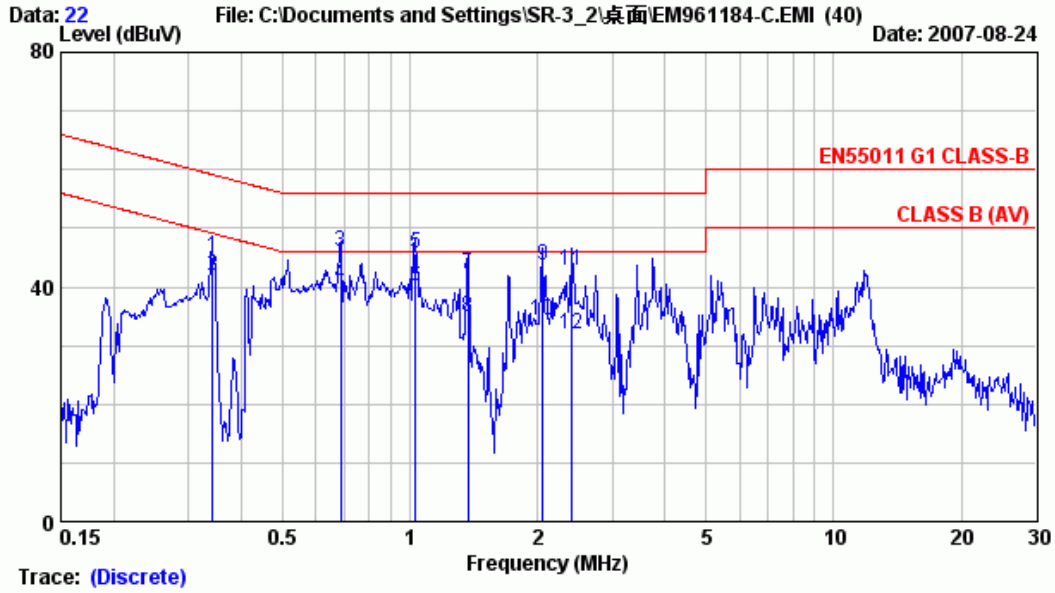


Site : NO.3 Shielded Room
Condition : KNW-244C
Limit : EN55011 G1 CLASS-B
Env. / Ins. : 25*C/42% ESCS30
EUT : LCD Monitor M/N:ER-191
Power Rating : 230Vac/50Hz
Test Mode : SDI IN

Data : 22
Phase : NEUTRAL
Engineer: Gary-Lin

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.343	0.10	0.20	44.96	45.26	59.14	13.88	QP
2	0.343	0.10	0.20	41.47	41.77	49.14	7.37	AVERAGE
3	0.687	0.10	0.20	45.67	45.97	56.00	10.03	QP
4	0.687	0.10	0.20	40.20	40.50	46.00	5.50	AVERAGE
5	1.032	0.10	0.40	45.34	45.84	56.00	10.16	QP
6	1.032	0.10	0.40	39.71	40.21	46.00	5.79	AVERAGE
7	1.373	0.15	0.40	41.57	42.12	56.00	13.88	QP
8	1.373	0.15	0.40	34.27	34.82	46.00	11.18	AVERAGE
9	2.058	0.20	0.40	42.96	43.56	56.00	12.44	QP
10	2.058	0.20	0.40	33.65	34.25	46.00	11.75	AVERAGE
11	2.399	0.20	0.40	42.27	42.87	56.00	13.13	QP
12	2.399	0.20	0.40	31.48	32.08	46.00	13.92	AVERAGE

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

4. RADIATED DISTURBANCE MEASUREMENT

4.1. Test Equipment

The following test equipment was used during the radiated disturbance measurement：

4.1.1. For Semi-Anechoic Chamber

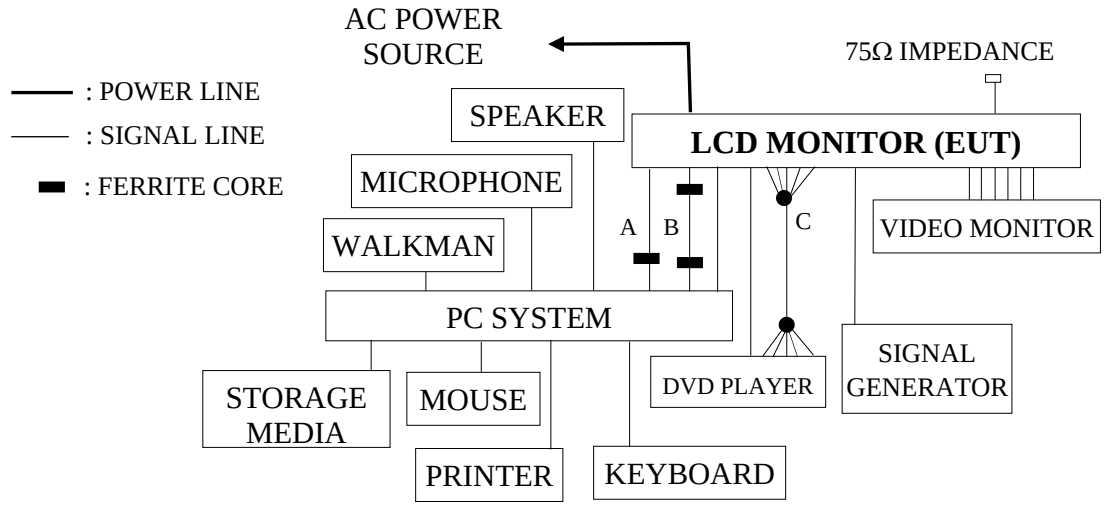
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E7405A	MY42000134	Jun. 27, 07’	Jun. 26, 08’
2.	Pre-Amplifier	HP	8447D	2944A06305	Mar. 03, 07’	Mar. 02, 08’
3.	Biconical Antenna	CHASE	VBA6106A	1264	Apr. 11, 07’	Apr. 10, 08’
4.	Log Periodic Antenna	Schwarzbeck	UHALP9108-A	0139	Apr. 11, 07’	Apr. 10, 08’

4.1.2. For No. 6 Open Area Test Site

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E7405A	MY42000132	Jun. 05, 07’	Jun. 04, 08’
2.	Test Receiver	R&S	ESCS30	825442/020	Aug. 13, 07’	Aug. 12, 08’
3.	Amplifier	HP	8447D	2443A03938	N/A	N/A
4.	Bilog Antenna	Schaffner	CBL6112B	2818	Apr. 17, 07’	Apr. 16, 08’

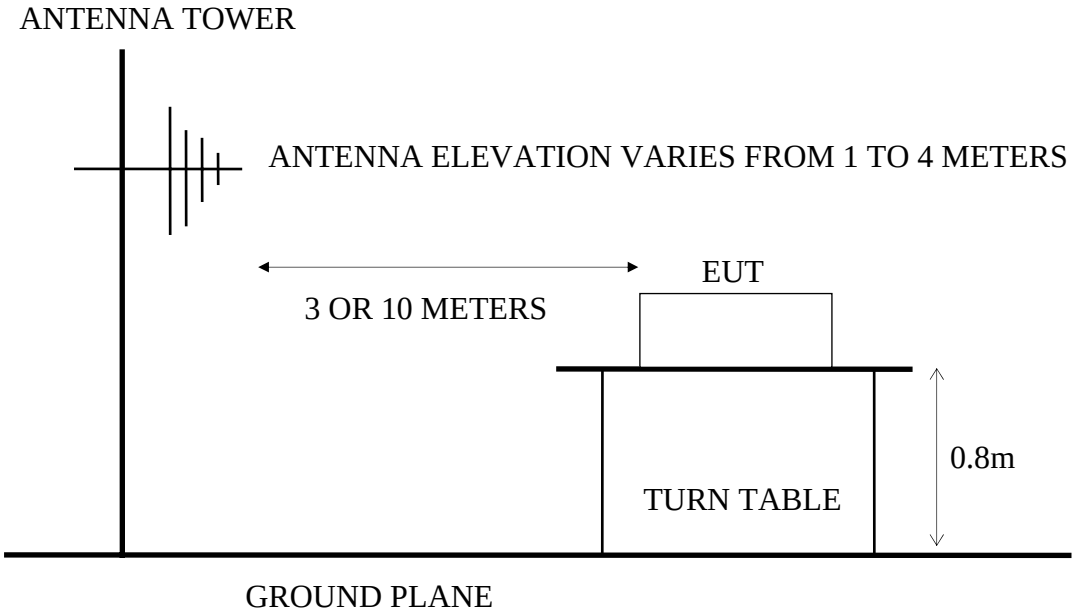
4.2. Block Diagram of Test Setup

4.2.1. Block Diagram of connection between EUT and simulators



A : DVI CABLE
B : D-SUB CABLE
C : BNC CABLE (Video Cable*2+Component Cable*3)

4.2.2. Semi-Anechoic Chamber (3m) & Open Area Test Site (10m) Setup Diagram



4.3. Limits (EN 55011, Group1/Class B)

FREQUENCY (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMITS (dBμV/m)
30 ~ 230	10 (3)	30 (40)
230 ~ 1000	10 (3)	37 (47)

Notes**:** (1) The tighter limit applies at the edge between two frequency bands.
(2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the E.U.T.
(3) ( ) is 3 meters limit.

4.4. EUT's Configuration during Compliance Measurement

The configuration of EUT is same as used in conducted measurement. Please refer to 3.4.

4.5. Operating Condition of EUT

Same as conducted measurement which is listed in 3.5. except the test set up replaced by section 4.2.

4.6. Test Procedure

The EUT was placed on a turn table which was 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. EUT was set to 10 meters (or 3 meters at semi-anechoic chamber) away from the receiving antenna which was mounted on an antenna tower. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level. Broadband antennas (biconical antenna & log periodic antenna at semi-anechoic chamber and calibrated bilog antenna at open area test site) were used as a receiving antenna. Both horizontal and vertical polarization of the antenna were set on measurement. In order to find the maximum emission, all of the interface cables were manipulated according to EN 55011 requirement.

The bandwidth of the R&S Test Receiver ESCS30 was set at 120kHz.

The frequency range from 30MHz to 1000MHz was pre-scanned with Peak detector at semi-anechoic chamber and all final readings of measurement were with Quasi-Peak detector at open area test site.

4.7. Radiated Disturbance Measurement Results

PASSED. (All emissions not reported below are too low against the prescribed limits.)

EUT with following test mode was measured within semi-anechoic chamber and all the pre-scanning waveform were listed in section 4.7.1.

EUT：LCD Monitor Model No.: ER-191

Test Date**:** Aug. 22, 2007 Temperature**:** 26℃ Humidity**:** 60%

The details of test modes and reference test data are as follows：

Mode	Input	Display, Resolution/ Frequency	Reference Test Data No.			
			Horizontal		Vertical	
			30-300 MHz	300-1000 MHz	30-300 MHz	300-1000 MHz
1.	D-Sub	H Pattern, 800*600/60Hz	# 35	# 18	# 36	# 17
2.		H Pattern, 1280*1024/75Hz	# 39	# 14	# 40	# 13
3.		H Pattern, 1600*1200/60Hz	# 38	# 15	# 37	# 16
4.	DVI	H Pattern, 640*480/60Hz	# 6	# 7	# 5	# 8
5.		H Pattern, 1024*768/60Hz	# 3	# 10	# 4	# 9
6.		H Pattern, 1280*1024/60Hz	# 2	# 11	# 1	# 12
7.	S IN	Color Bar Image	# 34	# 19	# 33	# 20
8.	AV IN	Color Bar Image	# 31	# 22	# 32	# 21
9.	COMPONENT VIDEO IN	Color Bar Image	# 30	# 23	# 29	# 24
10.	SDI IN	Color Bar Image	# 27	# 26	# 28	# 25

The worst test mode **[Mode 6]** was measured at no. 6 open area test site and all the test results are listed in section 4.7.2.

EUT：LCD Monitor Model No.: ER-191

Test Date**:** Aug. 23, 2007 Temperature**:** 28℃ Humidity**:** 43%

The details of test modes and reference test data are as follows：

Mode	Input	Display, Resolution/ Frequency	Reference Test Data No.	
			Horizontal	Vertical
***6.**	**DVI**	**H Pattern, 1280*1024/60Hz**	**# 2**	**# 1**

(*mode for maximum detected emission)

4.7.1. Radiated Disturbance Measurement Results at Semi-Anechoic Chamber

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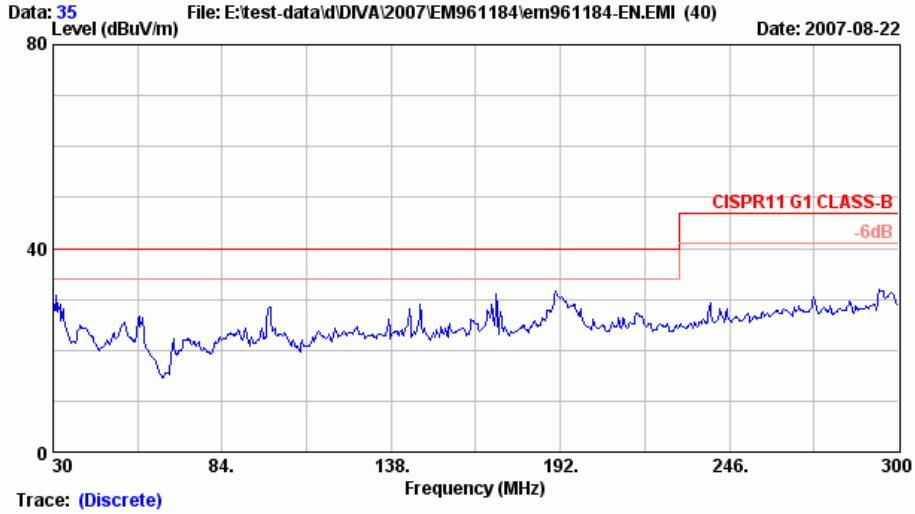

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 35
Dis. / Ant.	: 3m VBA6106A(1264)2006	Ant. pol.	: HORIZONTAL
Limit	: CISPR11 G1 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac / 50Hz		
Test Mode	: 800*600/60Hz(D-SUB)		

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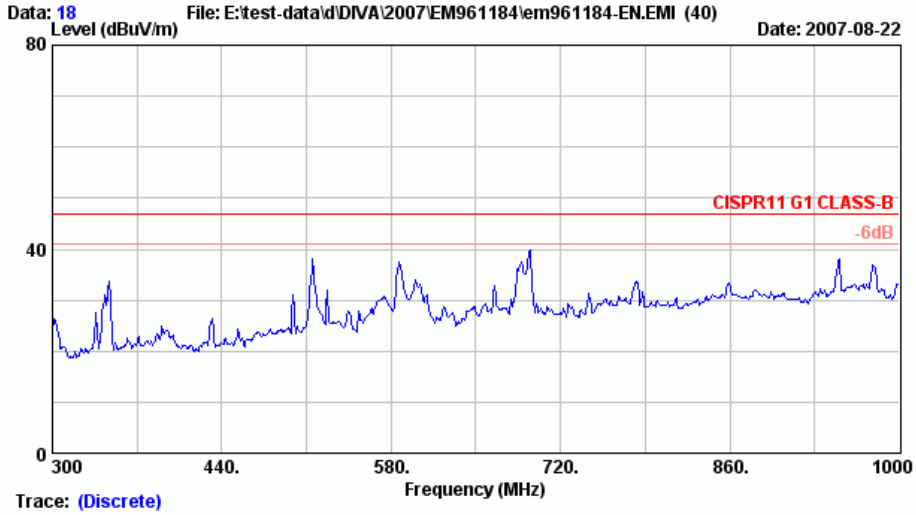

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 18
Dis. / Ant.	: 3m UHALP9108A(0139)2006	Ant. pol.	: HORIZONTAL
Limit	: CISPR11 G1 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac / 50Hz		
Test Mode	: 800*600/60Hz(D-SUB)		

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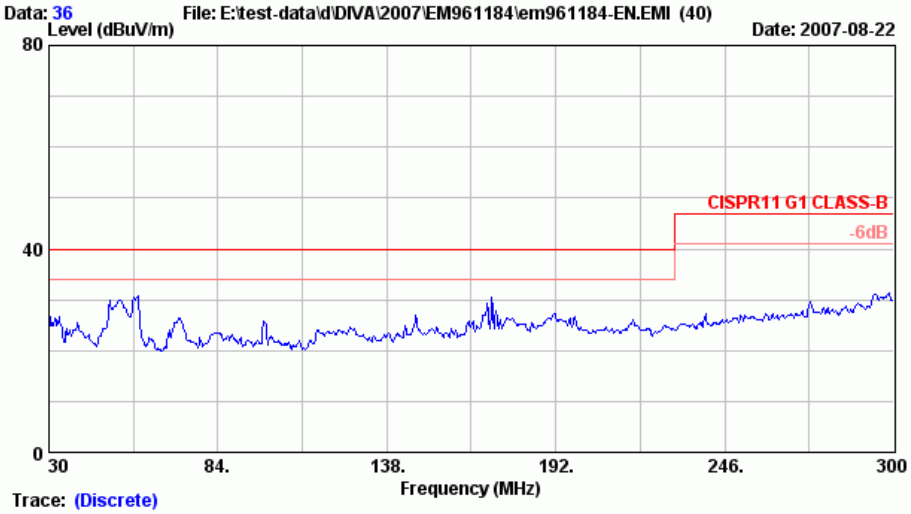

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 36
Dis. / Ant.	: 3m VBA6106A(1264)2006	Ant. pol.	: VERTICAL
Limit	: CISPR11 G1 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac / 50Hz		
Test Mode	: 800*600/60Hz(D-SUB)		

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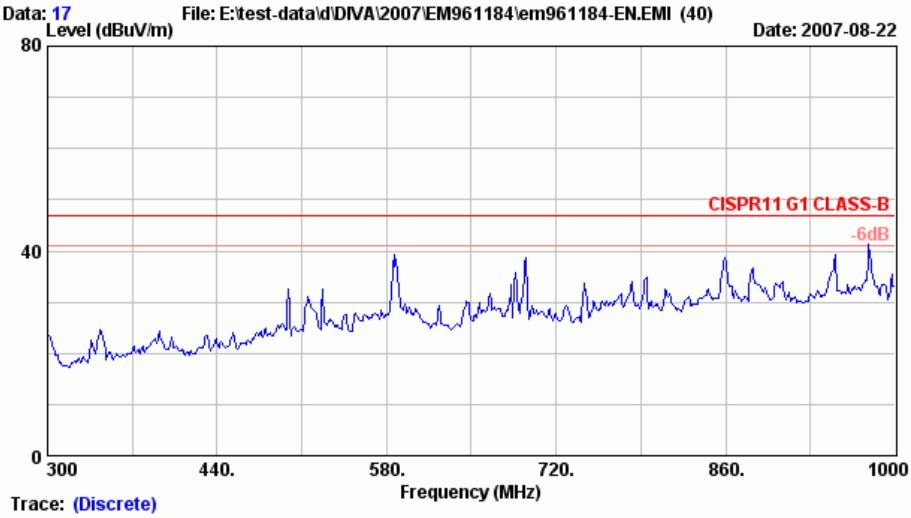

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 17
Dis. / Ant.	: 3m UHALP9108A(0139)2006	Ant. pol.	: VERTICAL
Limit	: CISPR11 G1 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac / 50Hz		
Test Mode	: 800*600/60Hz(D-SUB)		

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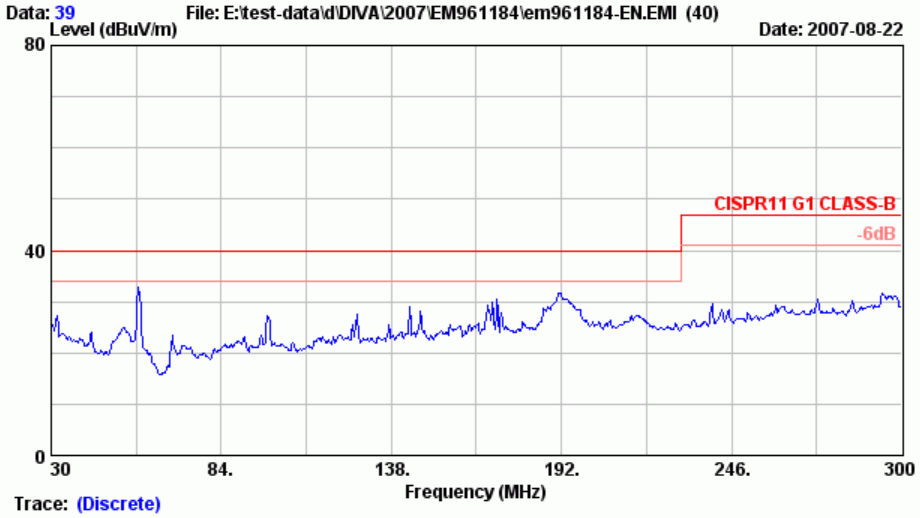

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 39
Dis. / Ant.	: 3m VBA6106A(1264)2006	Ant. pol.	: HORIZONTAL
Limit	: CISPR11 G1 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac / 50Hz		
Test Mode	: 1280*1024/75Hz(D-SUB)		

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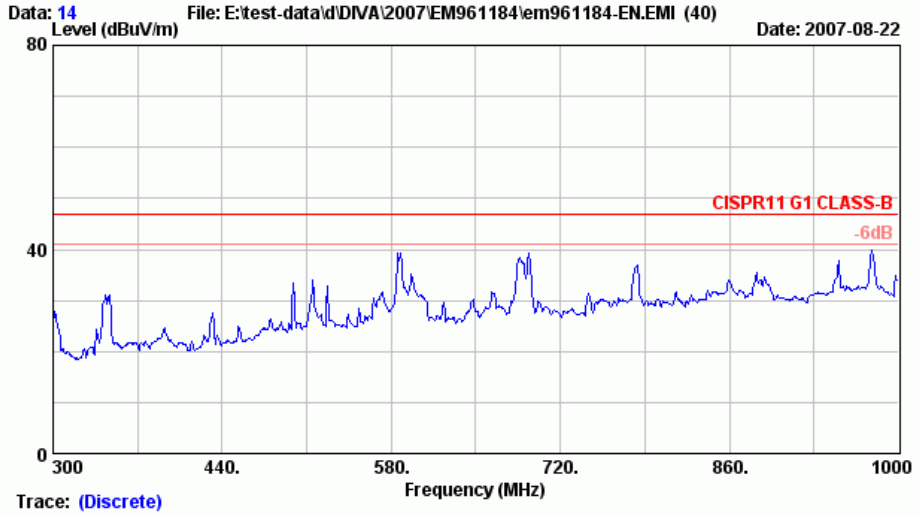

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 14
Dis. / Ant.	: 3m UHALP9108A(0139)2006	Ant. pol.	: HORIZONTAL
Limit	: CISPR11 G1 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac / 50Hz		
Test Mode	: 1280*1024/75Hz(D-SUB)		

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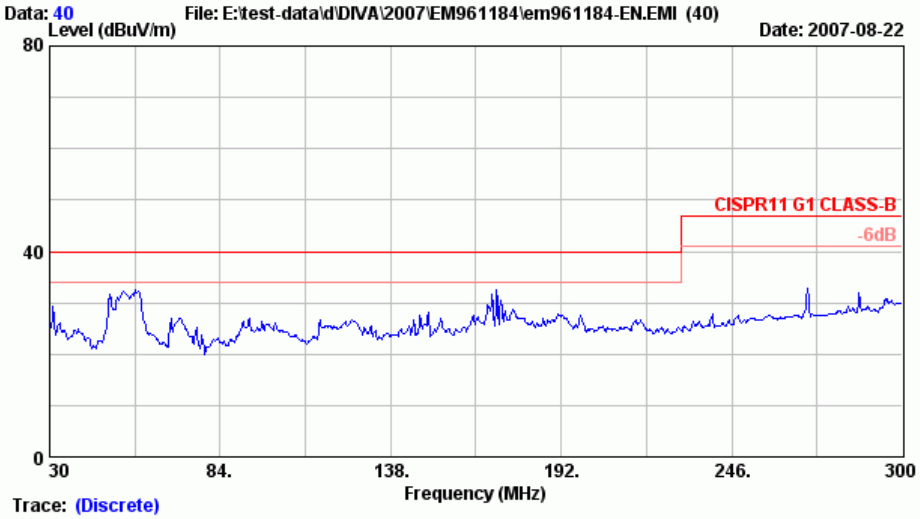

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 40
Dis. / Ant.	: 3m VBA6106A(1264)2006	Ant. pol.	: VERTICAL
Limit	: CISPR11 G1 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac / 50Hz		
Test Mode	: 1280*1024/75Hz(D-SUB)		

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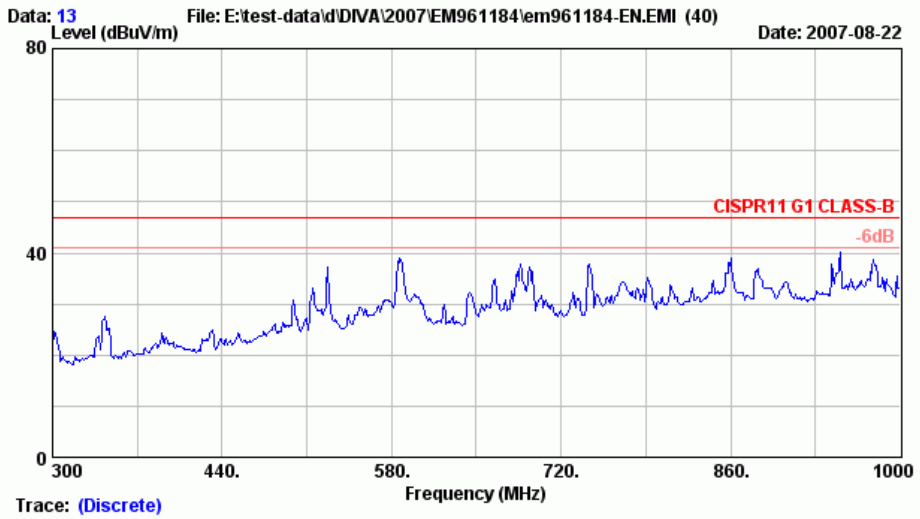

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 13
Dis. / Ant.	: 3m UHALP9108A(0139)2006	Ant. pol.	: VERTICAL
Limit	: CISPR11 G1 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac / 50Hz		
Test Mode	: 1280*1024/75Hz(D-SUB)		

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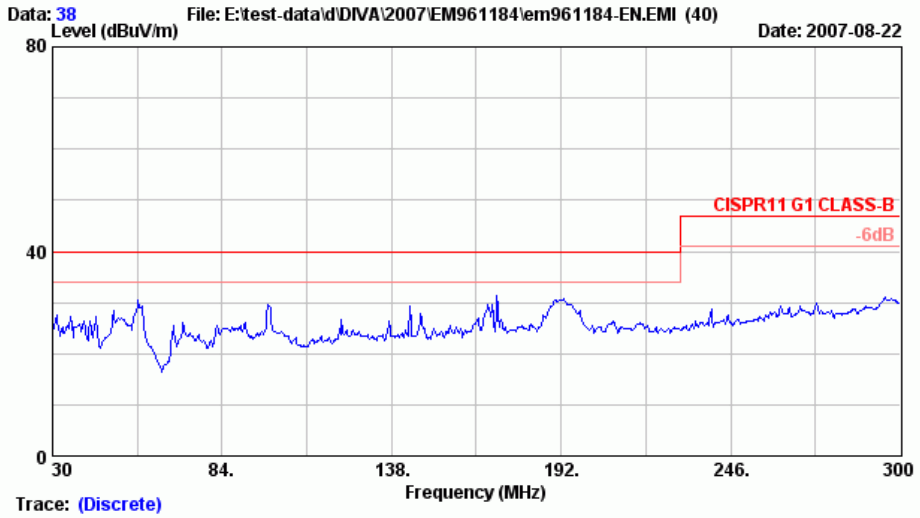

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 38
Dis. / Ant.	: 3m VBA6106A(1264)2006	Ant. pol.	: HORIZONTAL
Limit	: CISPR11 G1 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac / 50Hz		
Test Mode	: 1600*1200/60Hz(D-SUB)		

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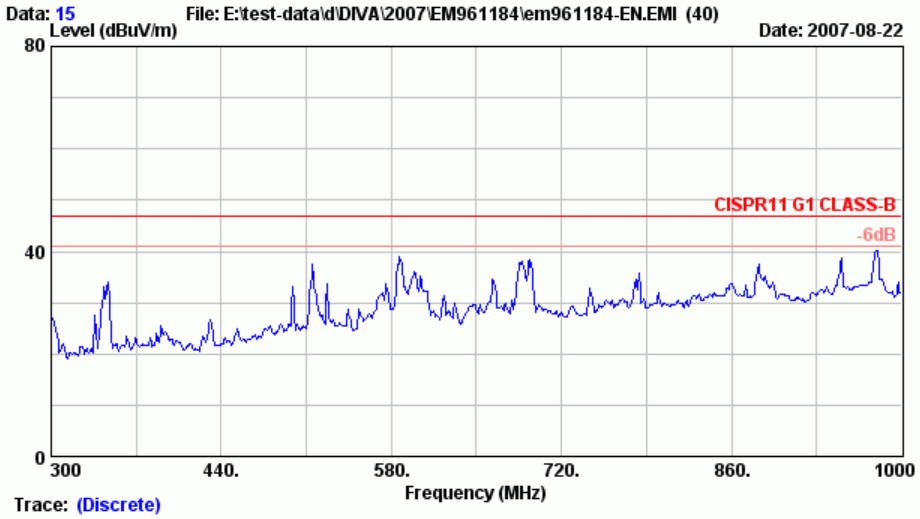

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 15
Dis. / Ant.	: 3m UHALP9108A(0139)2006	Ant. pol.	: HORIZONTAL
Limit	: CISPR11 G1 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac / 50Hz		
Test Mode	: 1600*1200/60Hz(D-SUB)		

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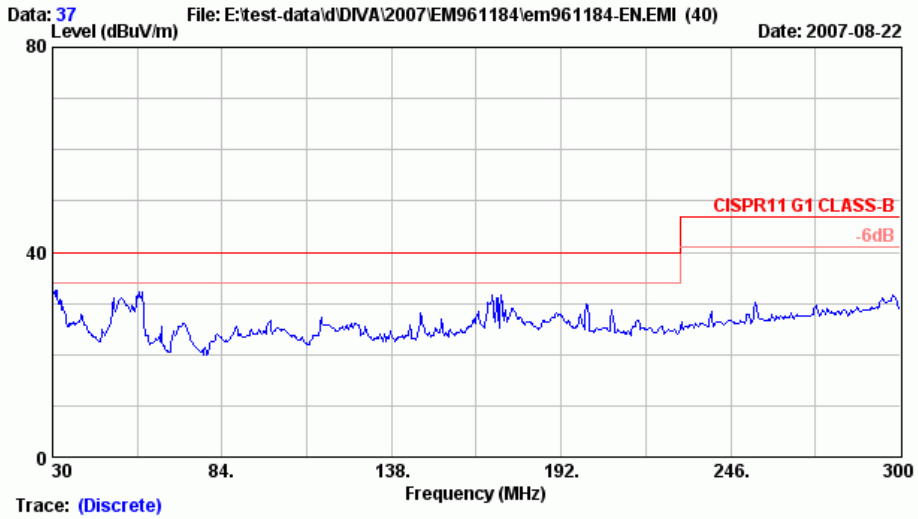

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 37
Dis. / Ant.	: 3m VBA6106A(1264)2006	Ant. pol.	: VERTICAL
Limit	: CISPR11 G1 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac / 50Hz		
Test Mode	: 1600*1200/60Hz(D-SUB)		

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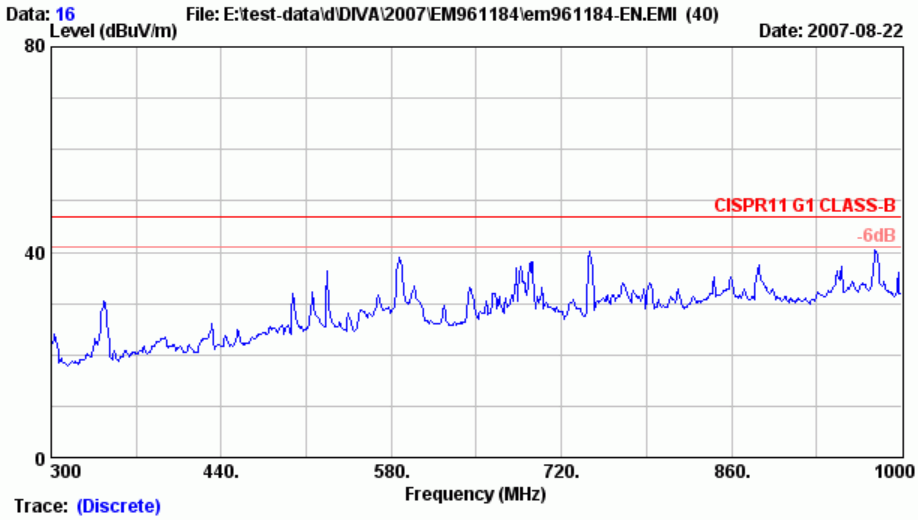

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 16
Dis. / Ant.	: 3m UHALP9108A(0139)2006	Ant. pol.	: VERTICAL
Limit	: CISPR11 G1 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac / 50Hz		
Test Mode	: 1600*1200/60Hz(D-SUB)		

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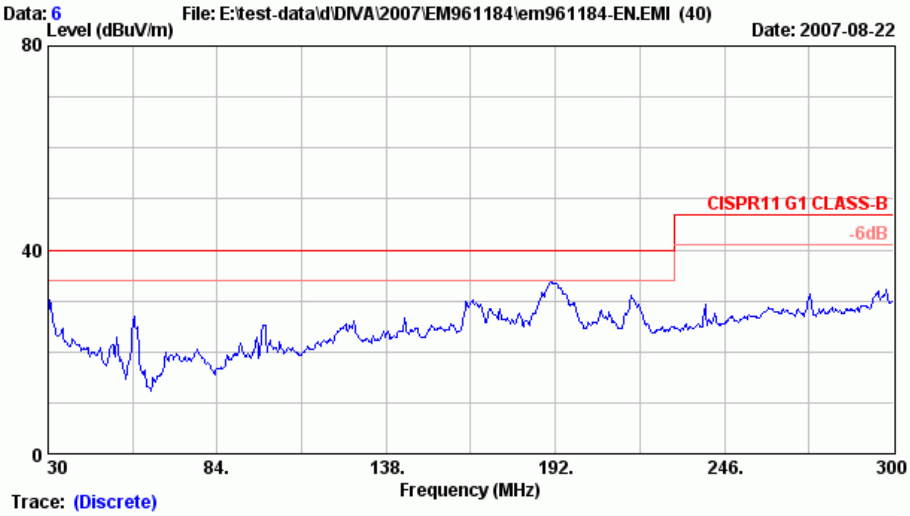

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 6
Dis. / Ant.	: 3m VBA6106A(1264)2006	Ant. pol.	: HORIZONTAL
Limit	: CISPR11 G1 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac / 50Hz		
Test Mode	: 640*480/60Hz(DVI)		

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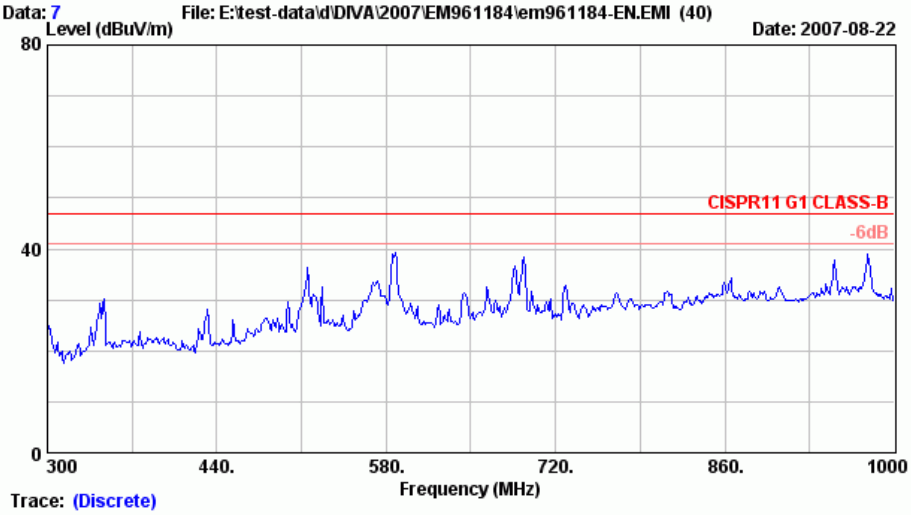

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 7
Dis. / Ant.	: 3m UHALP9108A(0139)2006	Ant. pol.	: HORIZONTAL
Limit	: CISPR11 G1 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac / 50Hz		
Test Mode	: 640*480/60Hz(DVI)		

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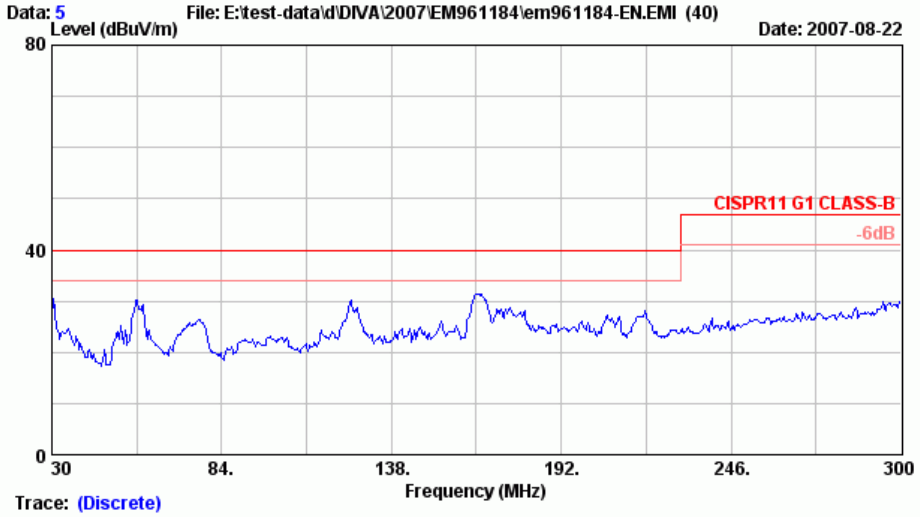

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 5
Dis. / Ant.	: 3m VBA6106A(1264)2006	Ant. pol.	: VERTICAL
Limit	: CISPR11 G1 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac / 50Hz		
Test Mode	: 640*480/60Hz(DVI)		

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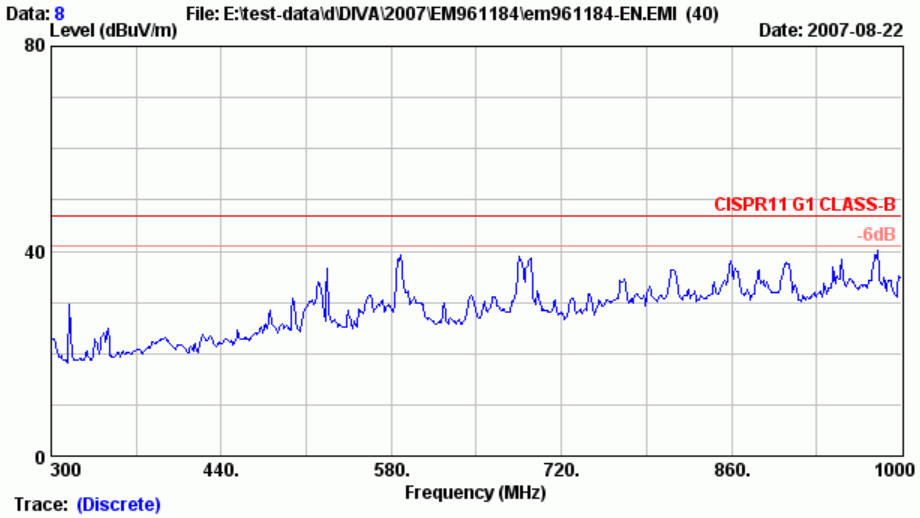

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 8
Dis. / Ant.	: 3m UHALP9108A(0139)2006	Ant. pol.	: VERTICAL
Limit	: CISPR11 G1 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac / 50Hz		
Test Mode	: 640*480/60Hz(DVI)		

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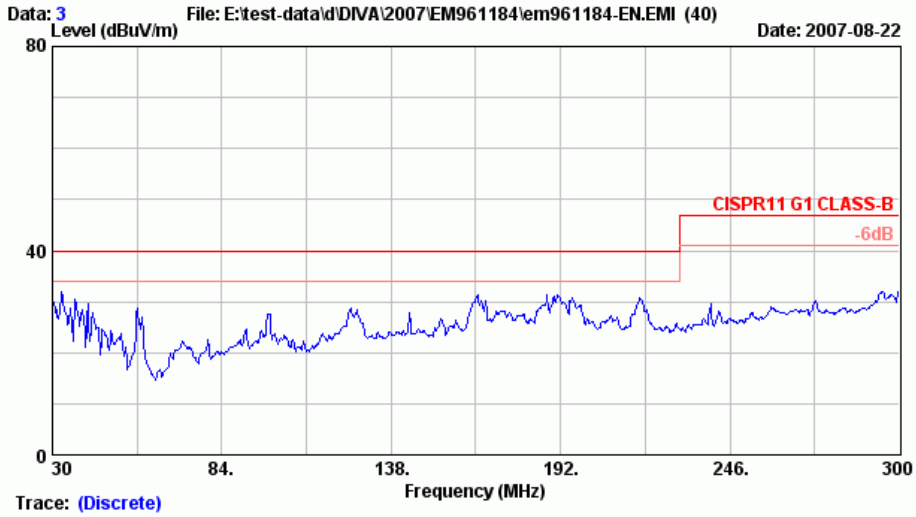

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 3
Dis. / Ant.	: 3m VBA6106A(1264)2006	Ant. pol.	: HORIZONTAL
Limit	: CISPR11 G1 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac / 50Hz		
Test Mode	: 1024*768/60Hz(DVI)		

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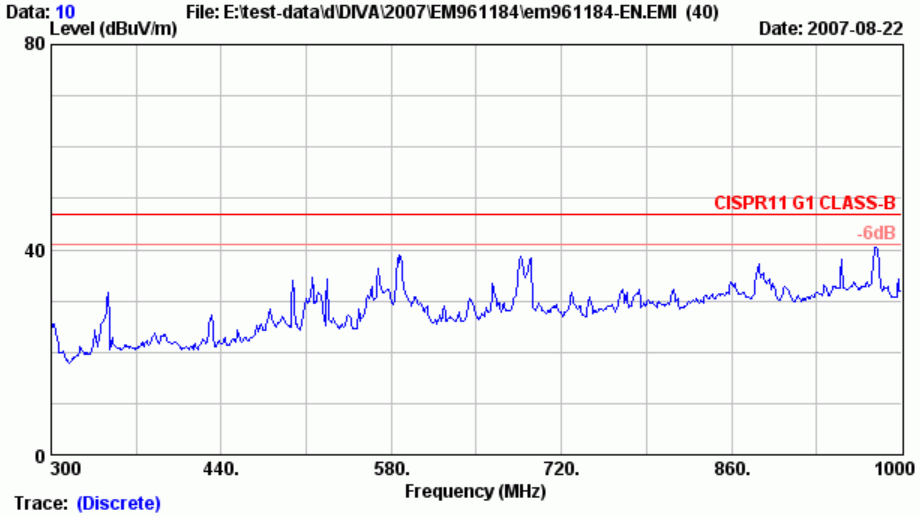

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 10
Dis. / Ant.	: 3m UHALP9108A(0139)2006	Ant. pol.	: HORIZONTAL
Limit	: CISPR11 G1 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac / 50Hz		
Test Mode	: 1024*768/60Hz(DVI)		

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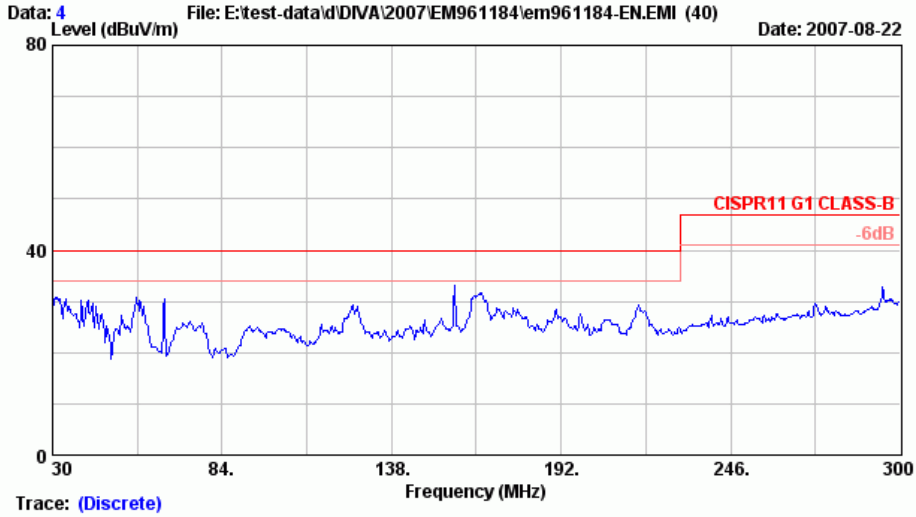

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 4
Dis. / Ant.	: 3m VBA6106A(1264)2006	Ant. pol.	: VERTICAL
Limit	: CISPR11 G1 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac / 50Hz		
Test Mode	: 1024*768/60Hz(DVI)		

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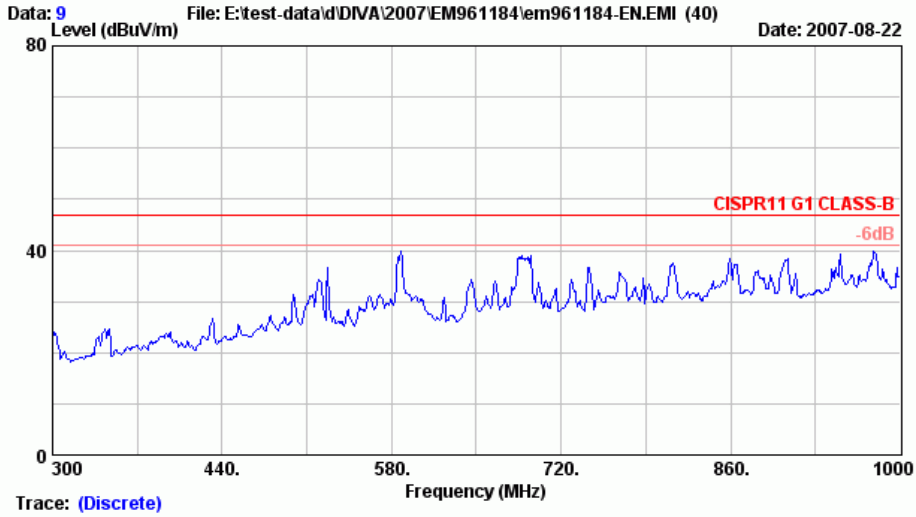

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 9
Dis. / Ant.	: 3m UHALP9108A(0139)2006	Ant. pol.	: VERTICAL
Limit	: CISPR11 G1 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac / 50Hz		
Test Mode	: 1024*768/60Hz(DVI)		

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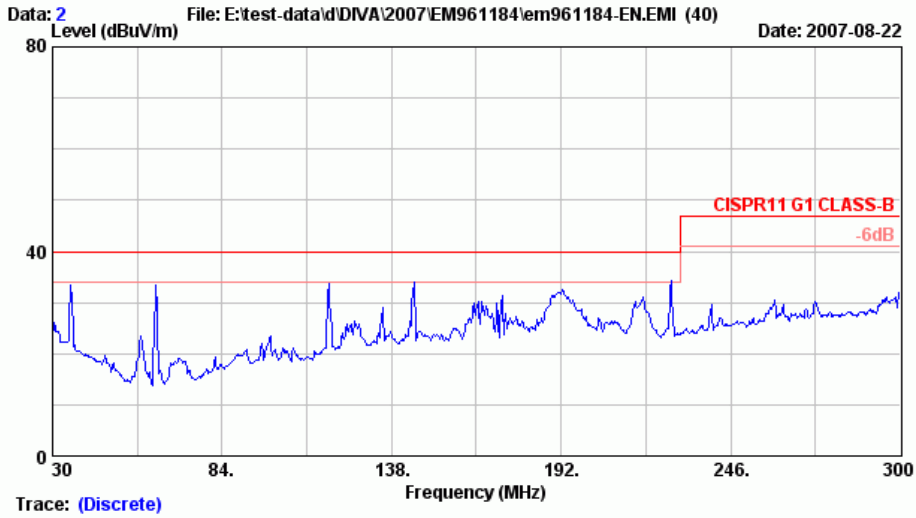

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 2
Dis. / Ant.	: 3m VBA6106A(1264)2006	Ant. pol.	: HORIZONTAL
Limit	: CISPR11 G1 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac / 50Hz		
Test Mode	: 1280*1024/60Hz(DVI)		

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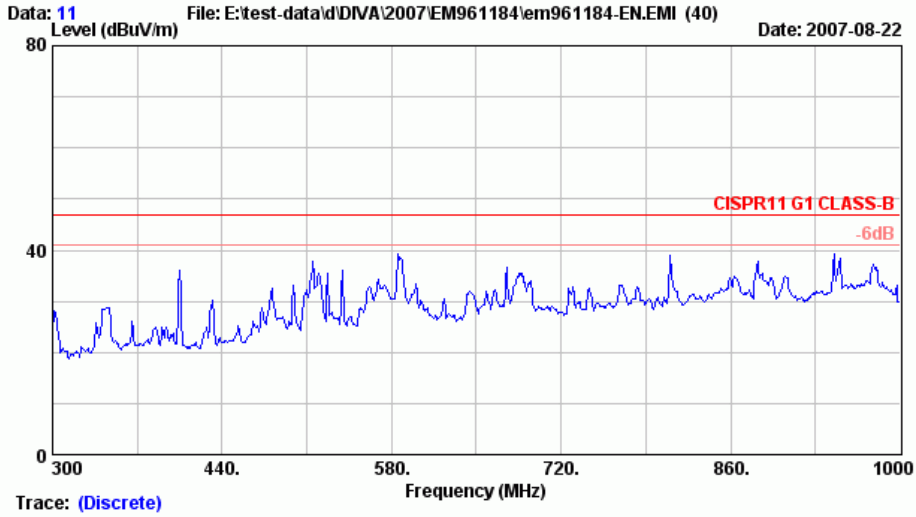

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 11
Dis. / Ant.	: 3m UHALP9108A(0139)2006	Ant. pol.	: HORIZONTAL
Limit	: CISPR11 G1 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac / 50Hz		
Test Mode	: 1280*1024/60Hz(DVI)		

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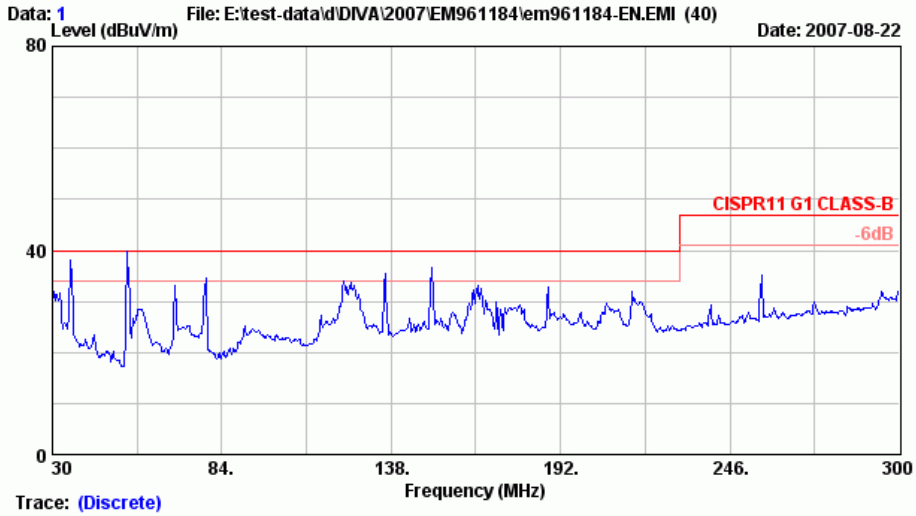

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 1
Dis. / Ant.	: 3m VBA6106A(1264)2006	Ant. pol.	: VERTICAL
Limit	: CISPR11 G1 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac / 50Hz		
Test Mode	: 1280*1024/60Hz(DVI)		

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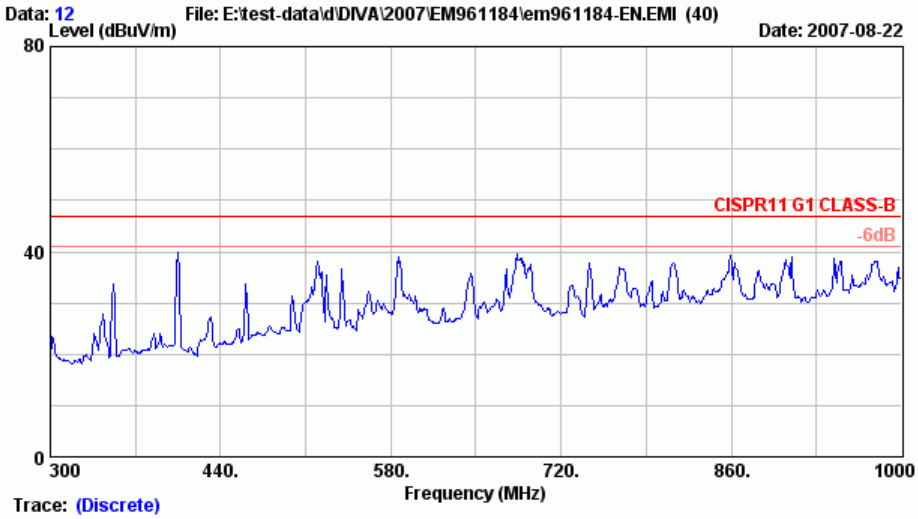

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 12
Dis. / Ant.	: 3m UHALP9108A(0139)2006	Ant. pol.	: VERTICAL
Limit	: CISPR11 G1 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac / 50Hz		
Test Mode	: 1280*1024/60Hz(DVI)		

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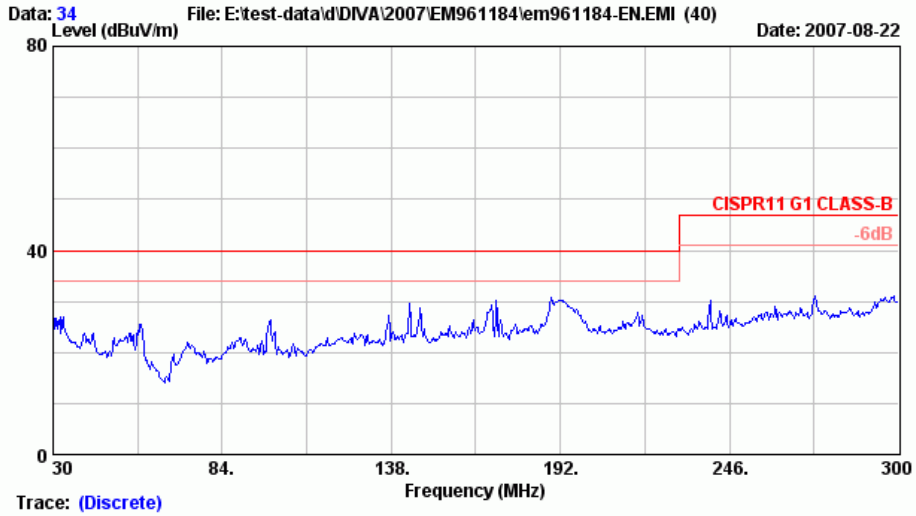

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 34
Dis. / Ant.	: 3m VBA6106A(1264)2006	Ant. pol.	: HORIZONTAL
Limit	: CISPR11 G1 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac / 50Hz		
Test Mode	: S IN		

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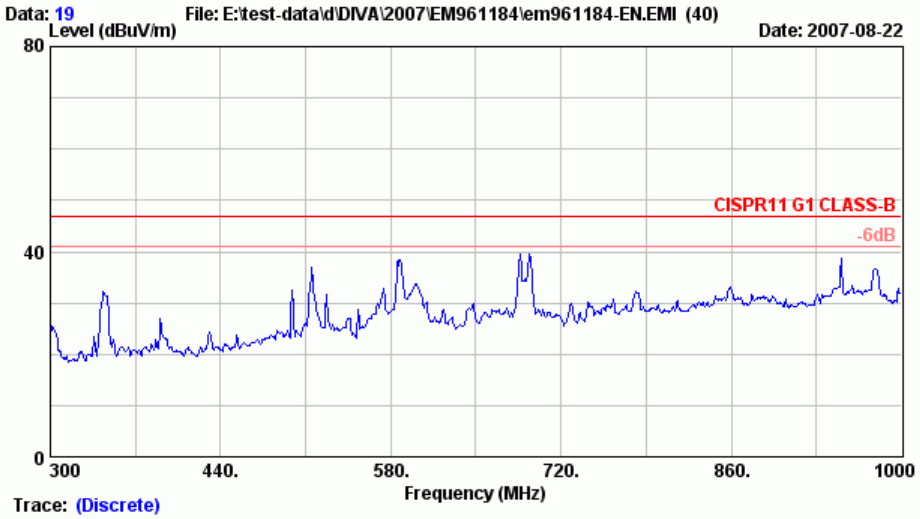

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 19
Dis. / Ant.	: 3m UHALP9108A(0139)2006	Ant. pol.	: HORIZONTAL
Limit	: CISPR11 G1 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac / 50Hz		
Test Mode	: S IN		

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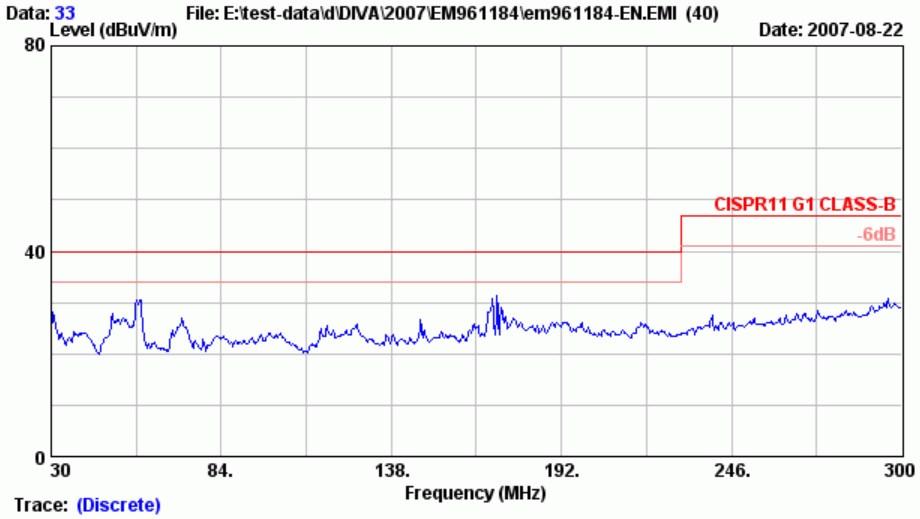

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 33
Dis. / Ant.	: 3m VBA6106A(1264)2006	Ant. pol.	: VERTICAL
Limit	: CISPR11 G1 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac / 50Hz		
Test Mode	: S IN		

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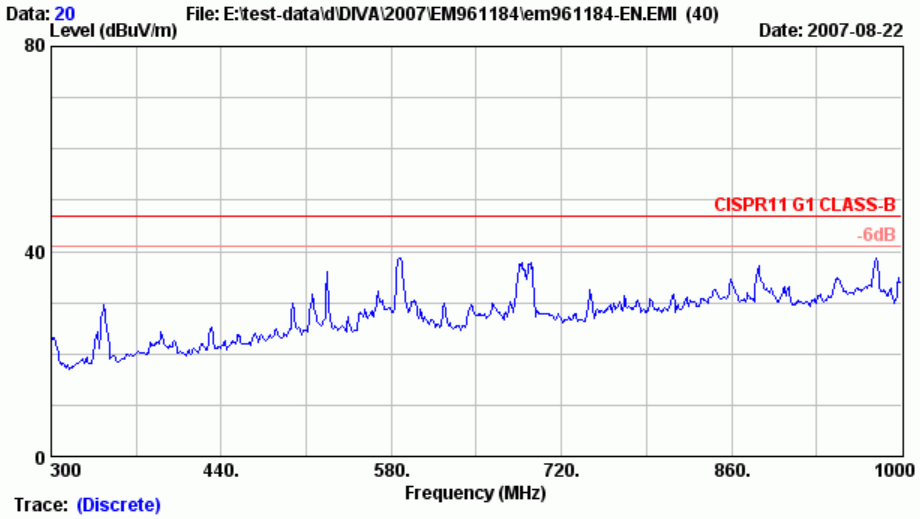

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 20
Dis. / Ant.	: 3m UHALP9108A(0139)2006	Ant. pol.	: VERTICAL
Limit	: CISPR11 G1 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac / 50Hz		
Test Mode	: S IN		

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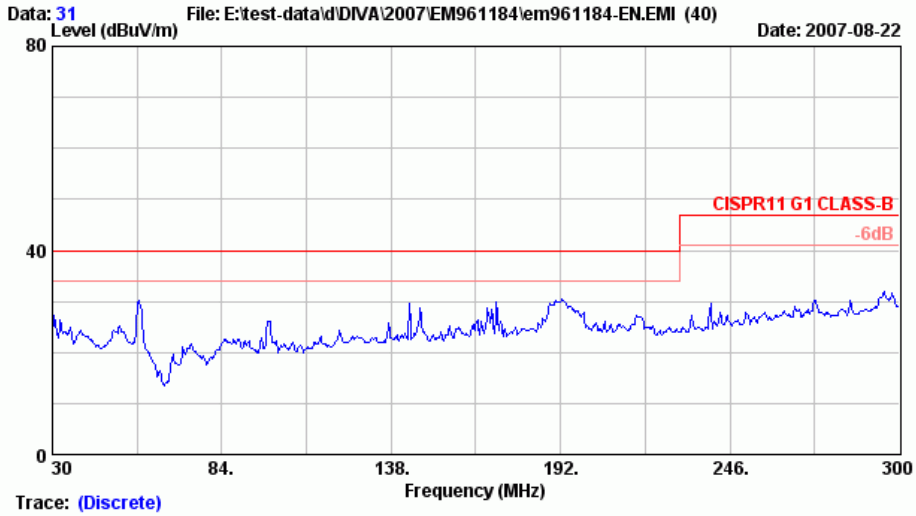

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 31
Dis. / Ant.	: 3m VBA6106A(1264)2006	Ant. pol.	: HORIZONTAL
Limit	: CISPR11 G1 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac / 50Hz		
Test Mode	: AV IN		

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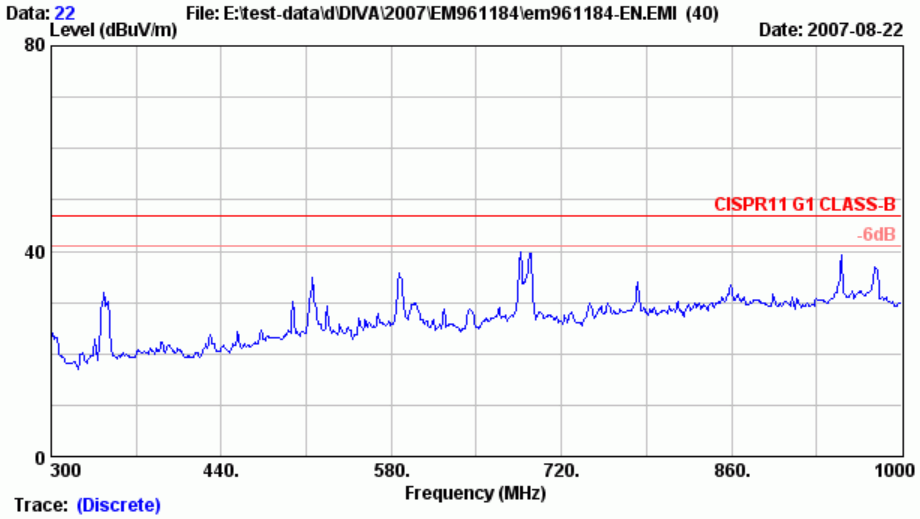

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 22
Dis. / Ant.	: 3m UHALP9108A(0139)2006	Ant. pol.	: HORIZONTAL
Limit	: CISPR11 G1 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac / 50Hz		
Test Mode	: AV IN		

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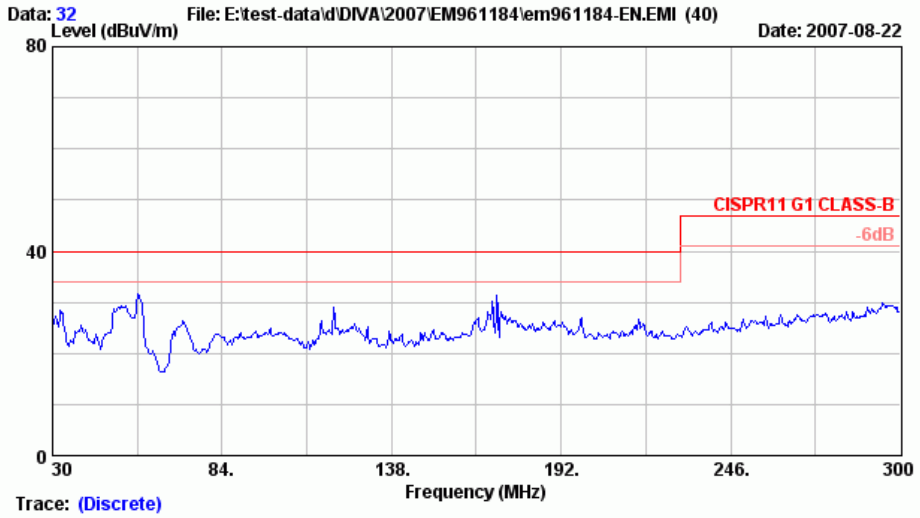

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 32
Dis. / Ant.	: 3m VBA6106A(1264)2006	Ant. pol.	: VERTICAL
Limit	: CISPR11 G1 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac / 50Hz		
Test Mode	: AV IN		

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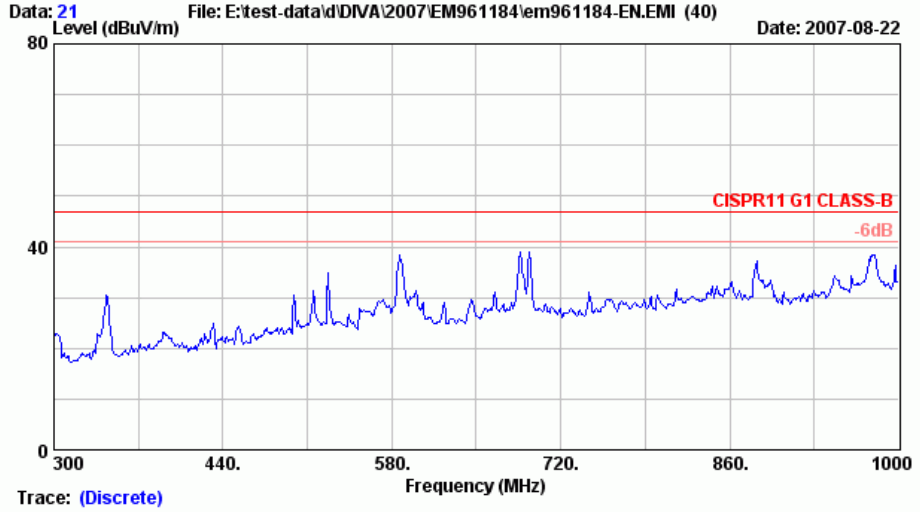

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 21
Dis. / Ant.	: 3m UHALP9108A(0139)2006	Ant. pol.	: VERTICAL
Limit	: CISPR11 G1 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac / 50Hz		
Test Mode	: AV IN		

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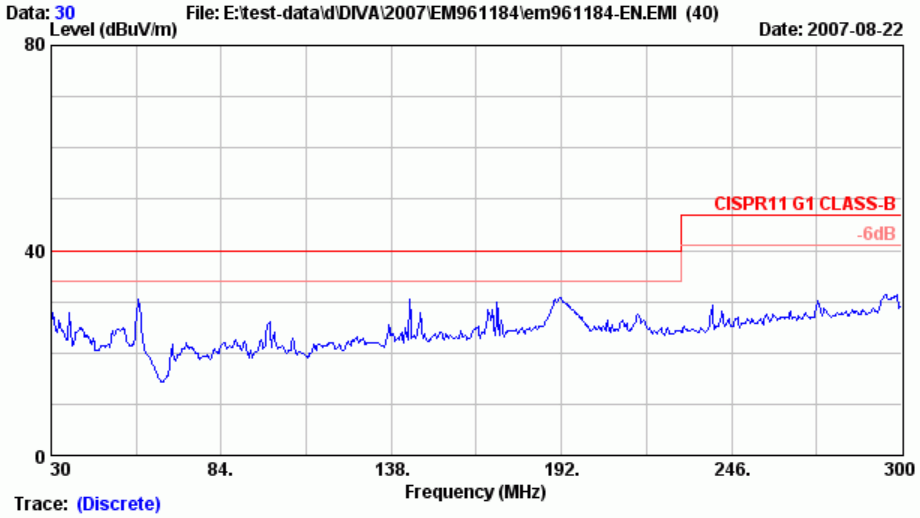

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 30
Dis. / Ant.	: 3m VBA6106A(1264)2006	Ant. pol.	: HORIZONTAL
Limit	: CISPR11 G1 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac / 50Hz		
Test Mode	: COMPONENT IN		

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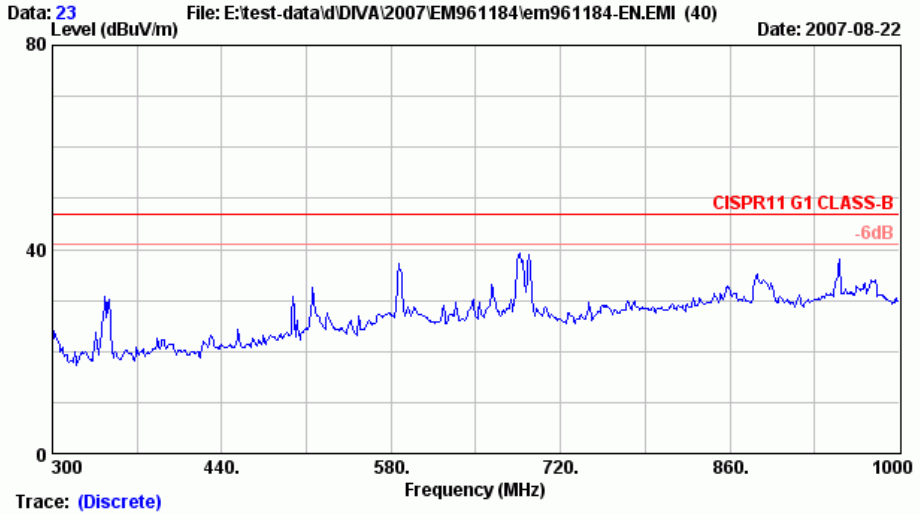

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 23
Dis. / Ant.	: 3m UHALP9108A(0139)2006	Ant. pol.	: HORIZONTAL
Limit	: CISPR11 G1 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac / 50Hz		
Test Mode	: COMPONENT IN		

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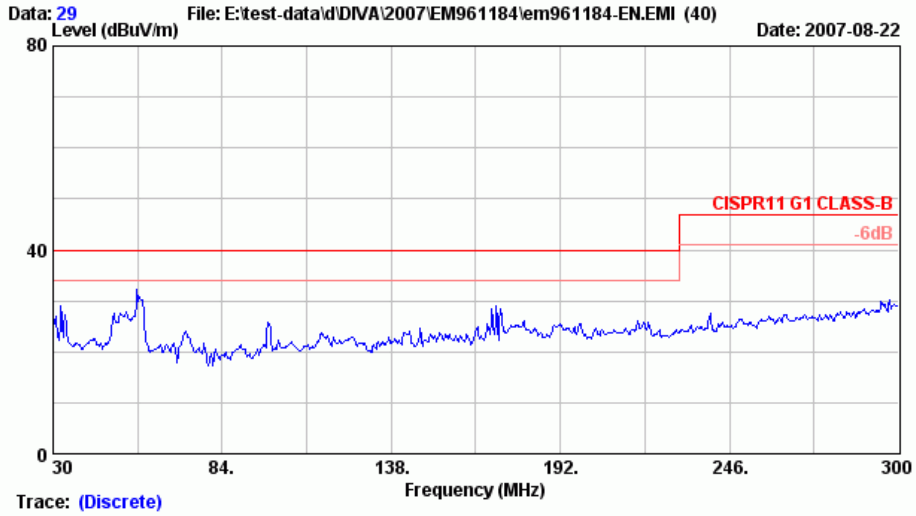

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 29
Dis. / Ant.	: 3m VBA6106A(1264)2006	Ant. pol.	: VERTICAL
Limit	: CISPR11 G1 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac / 50Hz		
Test Mode	: COMPONENT IN		

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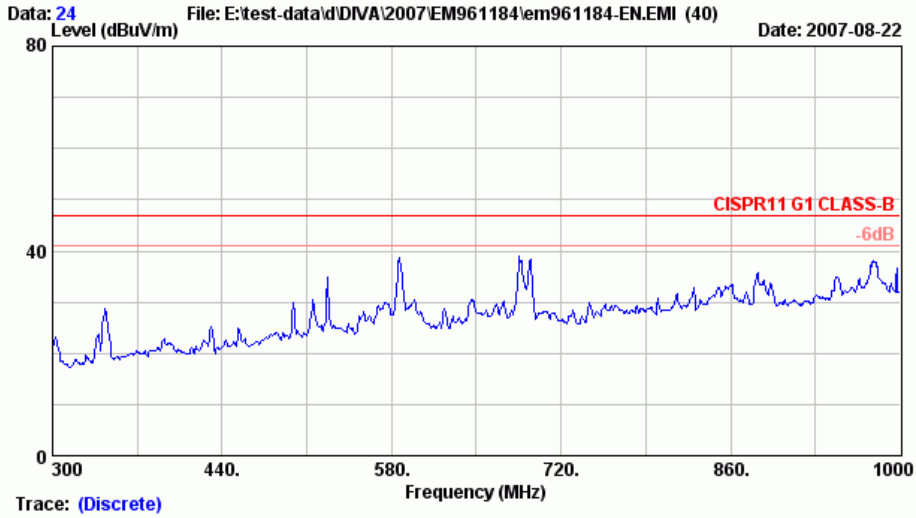

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 24
Dis. / Ant.	: 3m UHALP9108A(0139)2006	Ant. pol.	: VERTICAL
Limit	: CISPR11 G1 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac / 50Hz		
Test Mode	: COMPONENT IN		

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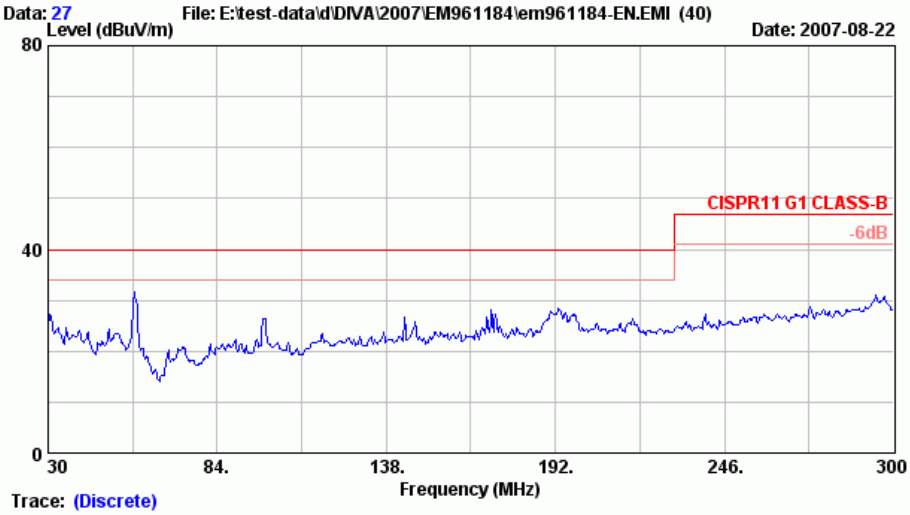

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 27
Dis. / Ant.	: 3m VBA6106A(1264)2006	Ant. pol.	: HORIZONTAL
Limit	: CISPR11 G1 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac / 50Hz		
Test Mode	: SDI IN		

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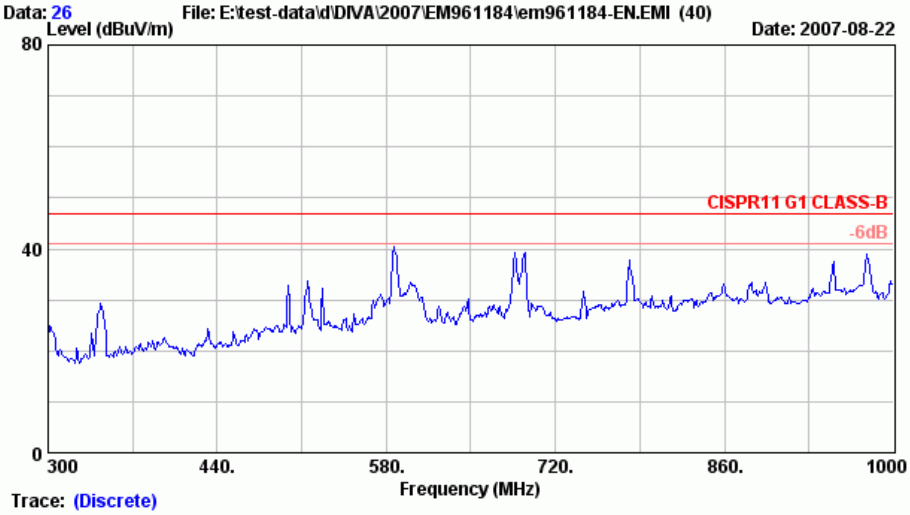

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 26
Dis. / Ant.	: 3m UHALP9108A(0139)2006	Ant. pol.	: HORIZONTAL
Limit	: CISPR11 G1 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac / 50Hz		
Test Mode	: SDI IN		

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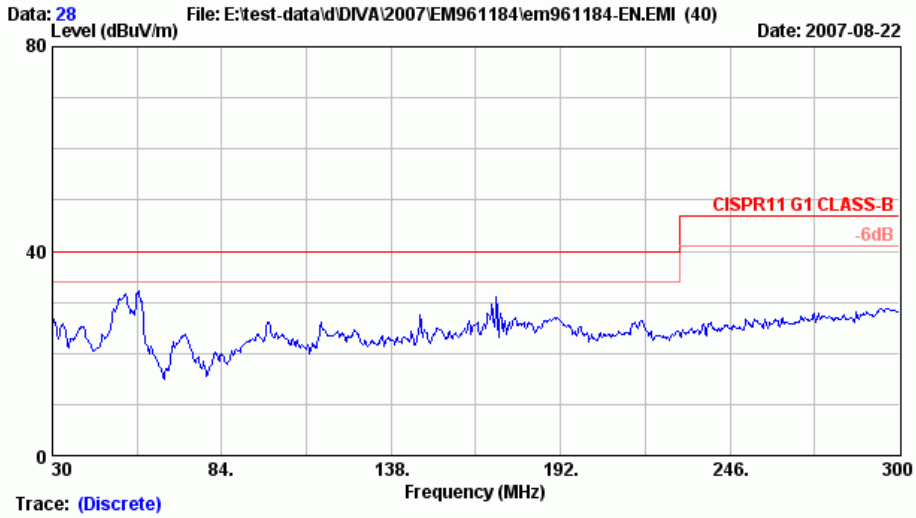

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 28
Dis. / Ant.	: 3m VBA6106A(1264)2006	Ant. pol.	: VERTICAL
Limit	: CISPR11 G1 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac / 50Hz		
Test Mode	: SDI IN		

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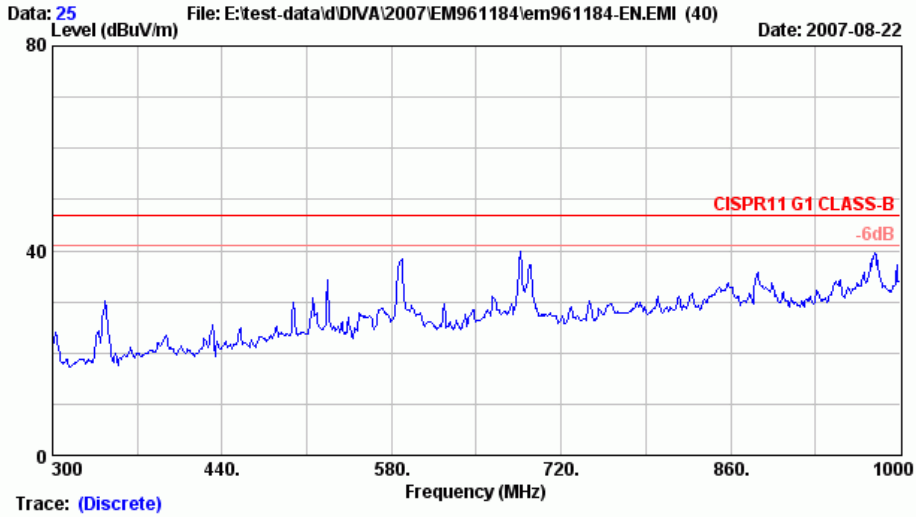

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 25
Dis. / Ant.	: 3m UHALP9108A(0139)2006	Ant. pol.	: VERTICAL
Limit	: CISPR11 G1 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 230Vac / 50Hz		
Test Mode	: SDI IN		

4.7.2. Radiated Disturbance Measurement Results at Open Area Test Site

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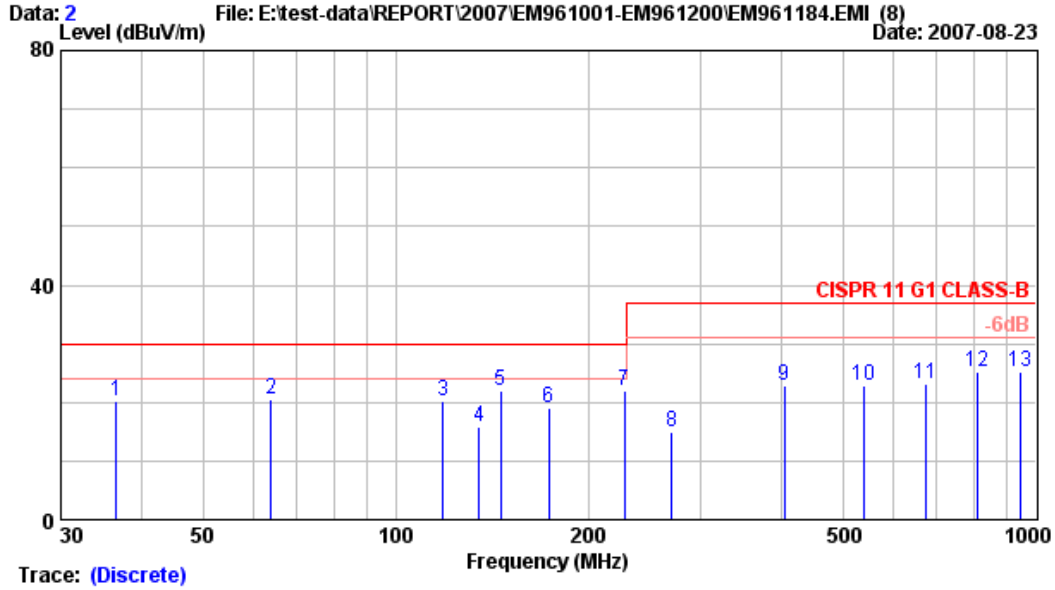

Site no. : NO.6 OPEN SITE Data no. : 2
Dis. / Ant. : 10m CBL6112B(2818)2007 Ant. pol. : HORIZONTAL
Limit : CISPR 11 G1 CLASS-B
Env. / Ins. : 28*C /43 % ESCS30 Engineer : Newman yang
EUT : LCD Monitor M/N:ER-191
Power Rating : 230Vac / 50Hz
Test Mode : 1280*1024/60 DVI

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	36.590	14.37	0.68	5.21	20.26	30.00	9.74	
2	63.926	5.77	1.11	13.70	20.57	30.00	9.43	
3	118.598	12.66	1.37	6.17	20.21	30.00	9.79	
4	135.000	11.91	1.45	2.44	15.80	30.00	14.20	
5	145.934	11.18	1.50	9.19	21.87	30.00	8.13	
6	173.270	9.93	1.71	7.28	18.92	30.00	11.08	
7	227.942	10.38	1.92	9.71	22.00	30.00	8.00	*
8	270.000	13.22	2.09	-0.28	15.02	37.00	21.98	
9	405.000	16.31	2.60	3.82	22.74	37.00	14.26	
10	540.000	18.53	3.02	1.43	22.98	37.00	14.02	
11	675.000	19.11	3.57	0.38	23.06	37.00	13.94	
12	810.000	20.37	3.83	1.11	25.31	37.00	11.69	
13	945.000	20.71	4.06	0.41	25.18	37.00	11.82	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.
3. The worst emission is detected at 227.942MHz with corrected signal level of 22.00dBµV/m (limit is 30dBµV/m) when the antenna is at horizontal polarization and is at 4m high and the turn table is at 180°.
4. 0°was the table front facing the antenna. Degree is calculated from 0°clockwise facing the antenna.

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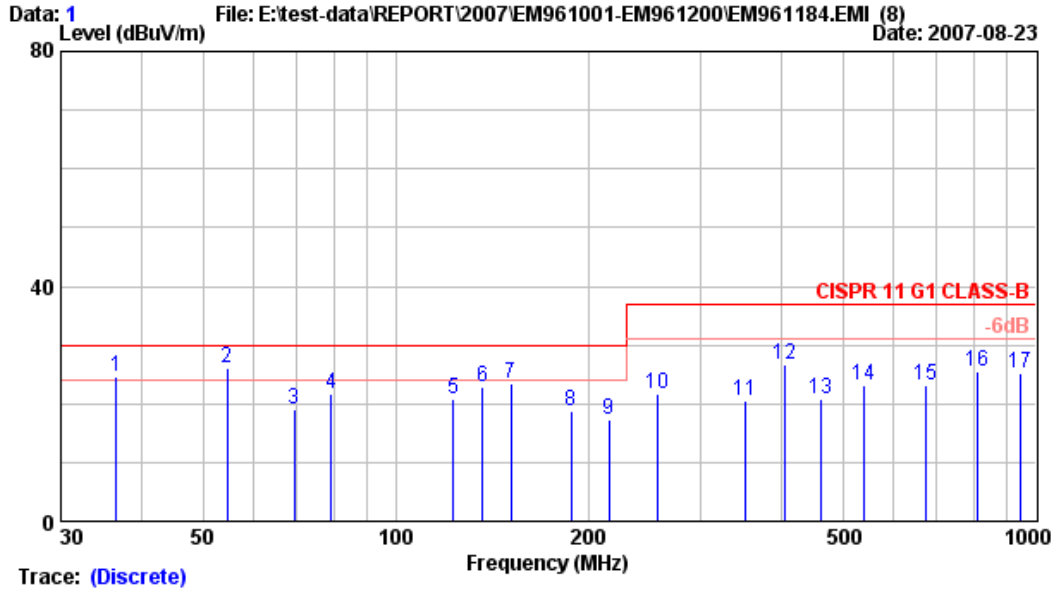


Site no. : NO.6 OPEN SITE Data no. : 1
Dis. / Ant. : 10m CBL6112B(2818)2007 Ant. pol. : VERTICAL
Limit : CISPR 11 G1 CLASS-B
Env. / Ins. : 28*C /43 % ESCS30 Engineer : Newman yang
EUT : LCD Monitor M/N:ER-191
Power Rating : 230Vac / 50Hz
Test Mode : 1280*1024/60 DVI

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	36.630	14.37	0.68	9.57	24.62	30.00	5.38	
2	54.503	5.63	0.96	19.63	26.22	30.00	3.78	*
3	69.505	6.83	1.19	11.06	19.08	30.00	10.92	
4	79.380	8.09	1.17	12.49	21.76	30.00	8.24	
5	123.255	12.36	1.41	6.96	20.72	30.00	9.28	
6	136.635	11.86	1.46	9.48	22.79	30.00	7.21	
7	151.384	10.71	1.57	11.30	23.58	30.00	6.42	
8	188.261	9.41	1.80	7.58	18.79	30.00	11.21	
9	215.601	9.57	1.88	5.92	17.37	30.00	12.63	
10	256.611	13.20	2.03	6.35	21.58	37.00	15.42	
11	352.301	14.82	2.53	3.08	20.42	37.00	16.58	
12	405.000	16.31	2.60	7.86	26.78	37.00	10.22	
13	461.661	17.03	2.80	0.97	20.79	37.00	16.21	
14	540.000	18.53	3.02	1.51	23.06	37.00	13.94	
15	675.000	19.11	3.57	0.34	23.02	37.00	13.98	
16	810.000	20.37	3.83	1.21	25.41	37.00	11.59	
17	945.000	20.71	4.06	0.47	25.24	37.00	11.76	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.
3. The worst emission is detected at 54.503MHz with corrected signal level of 26.22dBµV/m (limit is 30dBµV/m) when the antenna is at vertical polarization and is at 1m high and the turn table is at 70°.
4. 0°was the table front facing the antenna. Degree is calculated from 0°clockwise facing the antenna.

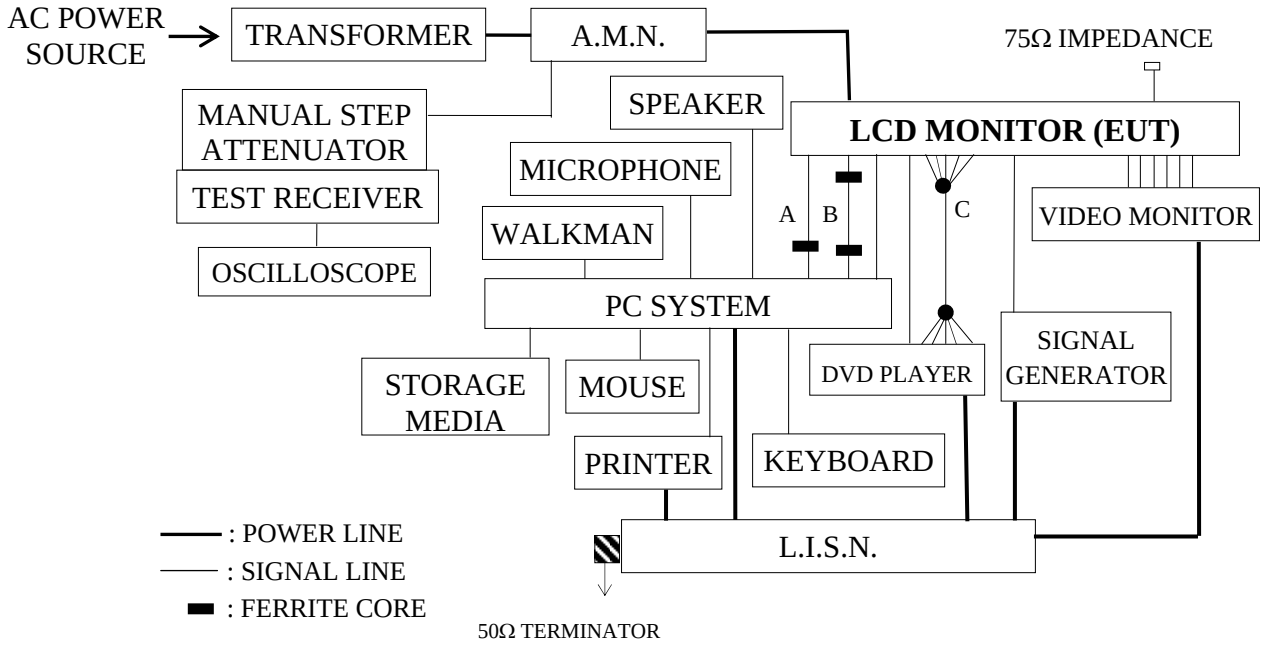
5. DISCONTINUOUS DISTURBANCE EMISSION MEASUREMENT

5.1. Test Equipment

The following test equipment was used during the discontinuous disturbance emission measurement: (No. 3 Shielded Room)

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R & S	ESCS 30	100039	Jun. 25, 07’	Jun. 24, 08’
2.	A.M.N.	Kyoritsu	KNW-244C	8-1373-5	Aug. 13, 07’	Aug. 12, 08’
3.	L.I.S.N.	Kyoritsu	KNW-407	8-1370-9	Jun. 06, 07’	Jun. 05, 08’
4.	Manual Step Attenuator	Agilent	8496B	US40153296	May 25, 07’	May 24, 08’
5.	Oscilloscope	Tektronix	TDS3052B	B010907	Jan. 30, 07’	Jan. 29, 08’

5.2. Block Diagram of Test Setup



A : DVI CABLE
B : D-SUB CABLE
C : BNC CABLE (Video Cable*2+Component Cable*3)

5.3. Limits

5.3.1. Click Limit (EN55014-1)

Frequency range (MHz)	At mains terminals		At load terminals and at additional terminals	
	dB(μV) Quasi-peak	dB(μV) Average*	dB(μV) Quasi-peak	dB(μV) Average*
0.15 to 0.50	Decreasing linearly with the logarithm of the frequency from : 66 to 56	59 to 46	80	70
0.50 to 5	56	46	74	64
5 to 30	60	50	74	64

Limits listed above apply to discontinuous disturbance from all equipment which produce:

(1) Disturbances other than clicks, or

(2) Clicks occurring more frequently than twice in any 2s period, or

(3) Clicks with a click rate ***N*** equal to or greater than 30.

5.3.2. The click limit Lq is the relevant limit *L* for continuous disturbance, as given in section 5.3.1., increased by:

44 dB for $N < 0.2$, or

20 log (30/***N***) dB for $0.2 \leq N < 30$

5.4. EUT's Configuration during Compliance Measurement

The configuration of EUT is same as used in conducted measurement. Please refer to 3.4.

5.5. Operating Condition of EUT

Same as conducted measurement which is listed in 3.5. except the test set up replaced by section 5.2. (Test Mode: Resolution and frequency: 1600*1200/60Hz)

5.6. Test Procedure

5.6.1. The EUT is connected to the click analyzer which is connected to the L.I.S.N.

5.6.2. Set the program to let the EUT to produce 40 clicks or, where relevant, 40 switching operations then record testing time. When, 120 min. after the beginning of the test, 40 clicks have not been produced, the test is stopped at the end of the program in progress.

5.6.3. For frequency range 148.5kHz to 500kHz, using 150kHz to determine click rate ***N*** ; and frequency range 500kHz to 30MHz, using 500kHz to determine click rate ***N***.

5.6.4. Limit calculation for clicks test (Lq).
Lq = L +20log 30/N (L: Limit)
*Lq: Limit of clicks disturbance voltage
*L: Limit of continuous disturbance voltage
*N: Total number of counted clicks/ Total time of run

5.6.5. A second test run is made to determine how many clicks exceed the click limit Lq. The time for this second run is the same as the time 4.5.2 taken for the first run.

5.6.6. Finally, comparing the total click numbers $\leqq$ 25% of clicks exceed limit Lq and the number of allowed clicks to decide the EUT is accepted or not.

5.6.7. The frequency points 150kHz、500kHz、1.4MHz、30MHz was checked.

5.6.8. All the test results are listed in section 5.7.

5.7. Measurement Results

For frequency 150kHz

Date of Test：	Aug. 24, 2007	Temperature：	26℃
EUT：	LCD Monitor	Humidity：	57%
Test Mode：	1600*1200/60Hz	Phase:	Neutral
Frequency：	150kHz	Total Time of Run (T)：	120 Min.
Number of Clicks (n1)：	0	Factor *f*：	1

After 120min., there is no click happened, therefore, the EUT is accepted.

Date of Test：	Aug. 24, 2007	Temperature：	26℃
EUT：	LCD Monitor	Humidity：	57%
Test Mode：	1600*1200/60Hz	Phase:	Line
Frequency：	150kHz	Total Time of Run (T)：	120 Min.
Number of Clicks (n1)：	0	Factor *f*：	1

After 120min., there is no click happened, therefore, the EUT is accepted.

For frequency 500kHz、1.4MHz and 30MHz

Date of Test：	Aug. 24, 2007	Temperature：	26℃
EUT：	LCD Monitor	Humidity：	57%
Test Mode：	1600*1200/60Hz	Phase:	Neutral
Frequency：	500kHz	Total Time of Run (T)：	120 Min.
Number of Clicks (n1)：	0	Factor *f*：	1

After 120min., there is no click happened, therefore, the EUT is accepted.

Date of Test：	Aug. 24, 2007	Temperature：	26℃
EUT：	LCD Monitor	Humidity：	57%
Test Mode：	1600*1200/60Hz	Phase:	Line
Frequency：	500kHz	Total Time of Run (T)：	120 Min.
Number of Clicks (n1)：	0	Factor *f*：	1

After 120min., there is no click happened, therefore, the EUT is accepted.

Date of Test：	Aug. 24, 2007	Temperature：	26℃
EUT：	LCD Monitor	Humidity：	57%
Test Mode：	1600*1200/60Hz	Phase:	Neutral
Frequency：	1.4MHz	Total Time of Run (T)：	120 Min.
Number of Clicks (n1)：	0	Factor *f*：	1

After 120min., there is no click happened, therefore, the EUT is accepted.

Date of Test：	Aug. 24, 2007	Temperature：	26℃
EUT：	LCD Monitor	Humidity：	57%
Test Mode：	1600*1200/60Hz	Phase:	Line
Frequency：	1.4MHz	Total Time of Run (T)：	120 Min.
Number of Clicks (n1)：	0	Factor *f*：	1

After 120min., there is no click happened, therefore, the EUT is accepted.

Date of Test：	Aug. 24, 2007	Temperature：	26℃
EUT：	LCD Monitor	Humidity：	57%
Test Mode：	1600*1200/60Hz	Phase:	Neutral
Frequency：	30MHz	Total Time of Run (T)：	120 Min.
Number of Clicks (n1)：	0	Factor *f*：	1

After 120min., there is no click happened, therefore, the EUT is accepted.

Date of Test：	Aug. 24, 2007	Temperature：	26℃
EUT：	LCD Monitor	Humidity：	57%
Test Mode：	1600*1200/60Hz	Phase:	Line
Frequency：	30MHz	Total Time of Run (T)：	120 Min.
Number of Clicks (n1)：	0	Factor *f*：	1

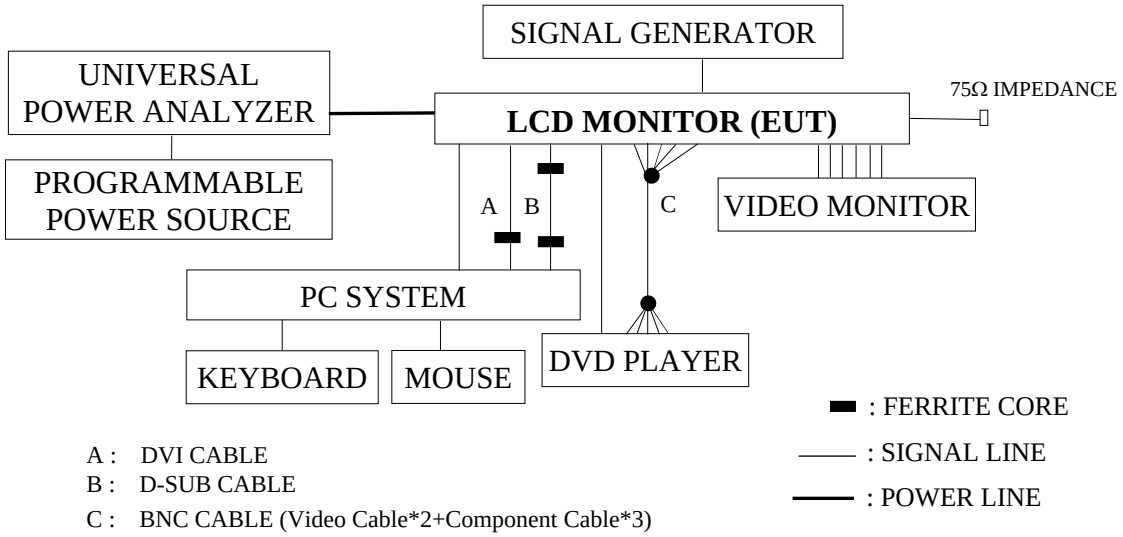
After 120min., there is no click happened, therefore, the EUT is accepted.

6. POWER HARMONICS AND FLICKER MEASUREMENT

6.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Universal Power Analyzer	Voltech	PM3000A	AL109/9072	May 09, 07’	May 08, 08’
2.	Reference Impedance Network	Voltech	IEC STANDARD 1000-3	IB110/9090	May 09, 07’	May 08, 08’
3.	Programmable Power Source	Chroma	6590	65900086	Jul. 27, 07’	Jul. 26, 08’

6.2. Block Diagram of Test Setup



A : DVI CABLE
B : D-SUB CABLE
C : BNC CABLE (Video Cable*2+Component Cable*3)

6.3. Test Standard

EN 61000-3-2/2000 +A2/2005 and EN 61000-3-3/1995+ A1/2001+ A2/2005

6.4. EUT’s Configuration during Compliance Measurement

6.4.1. LCD Monitor (EUT) **:** As in Section 3.4.1.

6.4.2. Supporting System **:** As in Section 2.2.

(For Harmonic、Flicker Measurements and EMS Immunity Tests)

6.5. Operating Condition of EUT

Same as conducted measurement which is listed in 3.5. except the test set up replaced by section 6.2.

6.6. Test Results

PASSED. (Complied with Class D limit)

EUT with following test mode was performed during this section testing and all the test results are attached in next pages.

Mode	Input	Display, Resolution/ Frequency
1.	DVI	H Pattern, 1280*1024/60Hz

Product:	LCD Monitor	2007 Aug 29 5:40pm
Serial no:	ER-191	Page 1 of 1
Description:	Test Mode:1280*1024/60Hz/DVI	
Test Date:	2007 Aug 29 5:21pm	
Result Name:	ER-191	
Type of Test:	EN61000:2001 Harmonics inc. interharmonics to EN61000-4-7	
Limits:	Class D	
Power Analyzer:	Voltech PM6000 v1.15.05RC1 s/n 100006700006	
AC Source:	Mains / Manual Source	

Harmonic Results Against Chosen Limits:	**Notes:**
PASS	

Test Parameter Details	**User Entered**	**Measured**
Operating Frequency:	50	49.9840
Operating Voltage:	230	231.1995
Specified Power:	50.0000	48.1295
Fundamental Current:	0.0000	0.2152
Power Factor:	0.0000	0.9274
Average Input Current:		0.2244
Maximum POHC:		0.0092
POHC Limit:		0.0215
Maximum THC:		0.0637
Minimum Power:	0	
Class Multiplier:	1.0000	
Test Duration:	00:02:30	

DIVA

Product:	LCD Monitor	2007 Aug 29 5:41pm
Serial no:	ER-191	Page 1 of 1
Description:	Test Mode:1280*1024/60Hz/DVI	
Result Name:	ER-191	
Voltech IEC61000-3 Windows Software 1.04.02		Test Date: 2007 Aug 29 5:21pm
Type of Test:	Fluctuating Harmonics Test - Worst Case Table (2001)	
Power Analyzer:	Voltech PM6000 v1.15.05RC1 s/n 100006700006	
AC Source:	Mains / Manual Source	
Overall Result: **PASS**		

Class	Class D
Class Multiplier	1

Harm	Limit 1	Limit 2	Average Reading	<L1	<L2	Max Reading	<L2	Pass FAIL	Harm	Limit 1	Limit 2	Average Reading	<L1	<L2	Max Reading	<L2	Pass FAIL
2	None	None	0.416mA			0.449mA		N/A	3	170.0mA	255.0mA	49.60mA	✓	✓	49.64mA	✓	Pass
4	None	None	0.330mA			0.352mA		N/A	5	95.00mA	142.5mA	28.00mA	✓	✓	28.04mA	✓	Pass
6	None	None	0.242mA			0.261mA		N/A	7	50.00mA	75.00mA	11.54mA	✓	✓	11.56mA	✓	Pass
8	None	None	0.166mA			0.202mA		N/A	9	25.00mA	37.50mA	20.27mA	✓	✓	20.31mA	✓	Pass
10	None	None	0.249mA			0.271mA		N/A	11	17.50mA	26.25mA	8.265mA	✓	✓	8.284mA	✓	Pass
12	None	None	0.328mA			0.350mA		N/A	13	14.80mA	22.21mA	2.760mA	✓	✓	2.823mA	✓	N/A
14	None	None	0.177mA			0.192mA		N/A	15	12.83mA	19.25mA	6.419mA	✓	✓	6.437mA	✓	Pass
16	None	None	0.192mA			0.214mA		N/A	17	11.32mA	16.98mA	7.457mA	✓	✓	7.483mA	✓	Pass
18	None	None	0.179mA			0.201mA		N/A	19	10.13mA	15.19mA	2.349mA	✓	✓	2.379mA	✓	N/A
20	None	None	0.148mA			0.164mA		N/A	21	9.166mA	13.75mA	4.049mA	✓	✓	4.081mA	✓	N/A
22	None	None	0.159mA			0.179mA		N/A	23	8.369mA	12.55mA	3.988mA	✓	✓	4.010mA	✓	N/A
24	None	None	0.295mA			0.322mA		N/A	25	7.700mA	11.55mA	3.606mA	✓	✓	3.639mA	✓	N/A
26	None	None	0.124mA			0.138mA		N/A	27	7.129mA	10.69mA	1.627mA	✓	✓	1.651mA	✓	N/A
28	None	None	0.148mA			0.169mA		N/A	29	6.637mA	9.956mA	4.066mA	✓	✓	4.090mA	✓	N/A
30	None	None	0.185mA			0.205mA		N/A	31	6.209mA	9.314mA	1.743mA	✓	✓	1.771mA	✓	N/A
32	None	None	0.138mA			0.155mA		N/A	33	5.833mA	8.750mA	0.944mA	✓	✓	0.969mA	✓	N/A
34	None	None	0.146mA			0.158mA		N/A	35	5.500mA	8.250mA	3.407mA	✓	✓	3.428mA	✓	N/A
36	None	None	0.170mA			0.188mA		N/A	37	5.202mA	7.804mA	1.651mA	✓	✓	1.671mA	✓	N/A
38	None	None	0.154mA			0.171mA		N/A	39	4.935mA	7.403mA	1.444mA	✓	✓	1.471mA	✓	N/A
40	None	None	0.141mA			0.157mA		N/A									

<L1 : Reading is below limit 1.

<L2 : Reading is below limit 2.

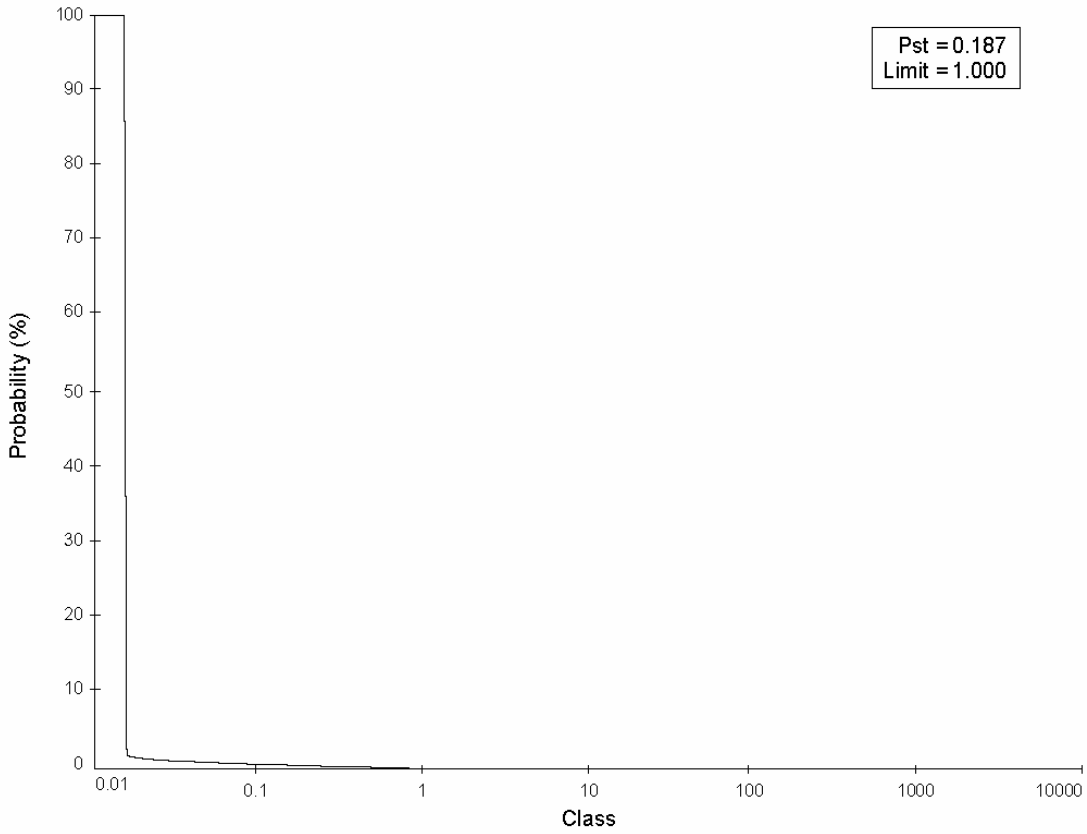
N/A : Harmonic current below 0.6% of rated current or 5mA, whichever is greater, are disregarded.

DIVA			
Product:	LCD Monitor		2007 Aug 29 5:39pm
Serial no:	ER-191		Page 1 of 1
Description:	Test Mode:1280*1024/60Hz/DVI		
Result Name:	ER-191		
Voltech IEC61000-3 Windows Software 1.04.02		Test Date:	2007 Aug 29 5:28pm
Type of Test:	Flickermeter Test - Table		
Power Analyzer:	Voltech PM6000 v1.15.05RC1 s/n 100006700006		
AC Source:	Mains / Manual Source		
Overall Result: PASS	Notes: Measurement method - Voltage		

	Pst	dc (%)	dmax (%)	d(t) > 3.3%(ms)
Limit	1.000	3.300	4.000	500
Reading 1	0.187	0.002	0.270	0

DIVA			
Product:	LCD Monitor		2007 Aug 29 5:39pm
Serial no:	ER-191		Page 1 of 65535
Description:	Test Mode:1280*1024/60Hz/DVI		
Result Name:	ER-191		
Voltech IEC61000-3 Windows Software 1.04.02		Test Date:	2007 Aug 29 5:28pm
Type of Test:	Flickermeter Test - Pst Curve		
Power Analyzer:	Voltech PM6000 v1.15.05RC1 s/n 100006700006		
AC Source:	Mains / Manual Source		
Overall Result: PASS	Notes: Measurement method - Voltage		

Pst Curve 1



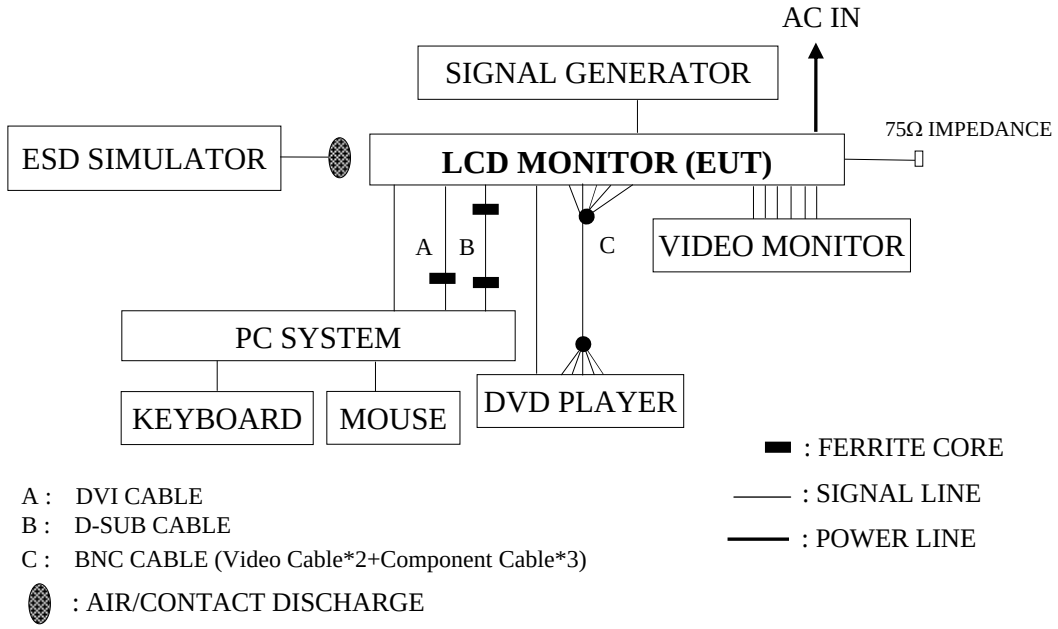
7. ELECTROSTATIC DISCHARGE IMMUNITY TEST

7.1. Test Equipment

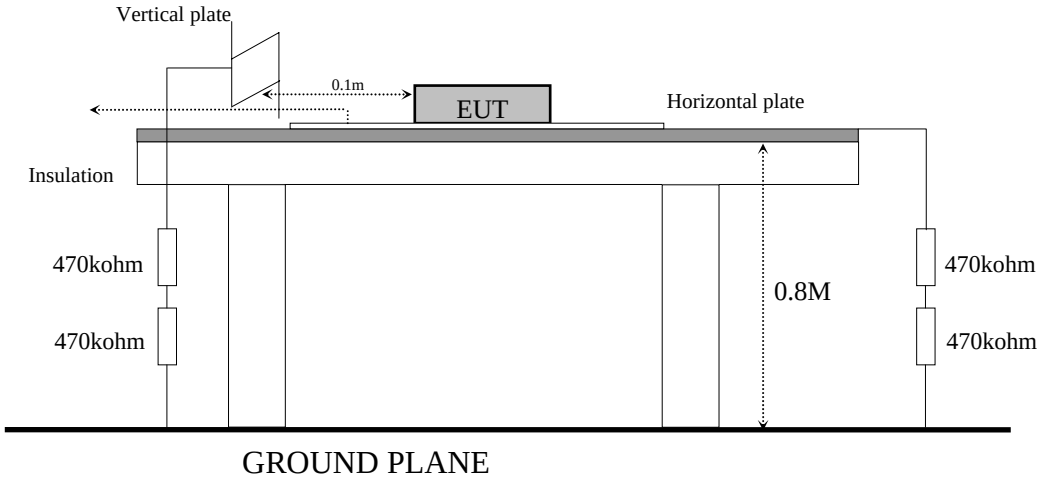
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	ESD Simulator	EM TEST	dito	V0503100055	Feb. 12, 07'	Feb. 11, 08'

7.2. Block Diagram of Test Setup

7.2.1. Test Setup Diagram (1)



7.2.2. Test Setup Diagram (2)



7.3. Test Standard

EN 60601-1-2/2001+A1/2006 (IEC 61000-4-2/2001)

7.4. Severity Levels and Performance Criterion

Equipment and systems shall comply with the requirements of EN 60601-1-2 section 36.202.1 j) at immunity test levels of ±2kV, ±4kV and ±8kV for air discharge and ±2kV, ±4kV and ±6kV for contact discharge.

7.5. EUT's Configuration during Compliance Measurement

The configuration of EUT is listed in section 6.4.

7.6. Operating Condition of EUT

Same as conducted measurement which is listed in 3.5. except the test set up replaced by section 7.2.

7.7. Test Procedure

7.7.1. Air Discharge：

This test is done on a non-conductive surface. The round discharge tip of the discharge electrode shall be approached as fast as possible to touch the EUT. After each discharge, the ESD generator discharge electrode shall be removed from the EUT. The generator is then retrigged for a new single discharge and repeated 10 discharges each at positive and negative polarity for each preselected test point. This procedure shall be repeated until all the air discharge completed.

7.7.2. Contact Discharge：

All the procedure shall be same as 7.7.1. except that the tip of the discharge electrode shall touch the EUT's conductive surfaces before the discharge switch is operated.

7.7.3. Indirect discharge for horizontal coupling plane：

At least 10 discharges each at positive and negative polarity shall be applied to the horizontal coupling plane, at points on each side of the EUT. The ESD generator positions vertically at a distance of 0.1m from the EUT and with the discharge electrode touching the coupling plane.

7.7.4. Indirect discharge for vertical coupling plane：

At least 10 discharges each at positive and negative polarity shall be applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m X 0.5m, is placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges shall be applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

7.7.5. For above tests, the voltage was increased from the minimum to the selected test level.

7.8. Test Results

PASSED.

EUT with following test mode was performed during this section testing and all the test results are attached in next page.

Mode	Input	Display, Resolution/ Frequency
1.	D-Sub	H Pattern, 1280*1024/75Hz
2.	DVI	H Pattern, 1280*1024/60Hz
3.	S IN	Color Bar Image
4.	AV IN	Color Bar Image
5.	COMPONENT VIDEO IN	Color Bar Image
6.	SDI IN	Color Bar Image

Electrostatic Discharge Immunity Test Results

AUDIX TECHNOLOGY CORPORATION

Date：09/04/2007

Applicant： DIVA Laboratories Ltd.	Test Date： Aug. 28, 2007
EUT： LCD Monitor	Temperature： 24 ℃
Power Supply： AC 230V, 50Hz	Humidity： 49 %
Working Condition： Operating	Test Model： ER-191

Test Modes：(1)D-Sub, H Pattern, 1280*1024/75Hz (2)DVI, H Pattern, 1280*1024/60Hz
(3)S IN, Color Bar Image (4)AV IN, Color Bar Image
(5)COMPONENT IN, Color Bar Image (6)SDI IN, Color Bar Image

Item	Amount of Discharge for per voltage	Test Voltage	Results
Contact Discharge	340	+2kV; +4kV; +6kV	**Pass**
		-2kV; -4kV; -6kV	**Pass**
Air Discharge	0	+2kV; +4kV; +8kV	**Pass, Note**
		-2kV; -4kV; -8kV	**Pass, Note**
Indirect Discharge (HCP)	20	+2kV; +4kV; +6kV	**Pass**
		-2kV; -4kV; -6kV	**Pass**
Indirect Discharge (VCP Front)	20	+2kV; +4kV; +6kV	**Pass**
		-2kV; -4kV; -6kV	**Pass**
Indirect Discharge (VCP Left)	20	+2kV; +4kV; +6kV	**Pass**
		-2kV; -4kV; -6kV	**Pass**
Indirect Discharge (VCP Back)	20	+2kV; +4kV; +6kV	**Pass**
		-2kV; -4kV; -6kV	**Pass**
Indirect Discharge (VCP Right)	20	+2kV; +4kV; +6kV	**Pass**
		-2kV; -4kV; -6kV	**Pass**

Measurement Points				
	1. Screw	Contact Discharge	11. R Out	Contact Discharge
	2. Screw	Contact Discharge	12. R In	Contact Discharge
	3. Metal	Contact Discharge	13. DVI	Contact Discharge
	4. SDI Out	Contact Discharge	14. GPI	Contact Discharge
	5. SDI In	Contact Discharge	15. VGA	Contact Discharge
	6. CVBS Out	Contact Discharge	16. AC In	Contact Discharge
	7. S-Video Out	Contact Discharge	17. Metal	Contact Discharge
	8. Xs Out	Contact Discharge	18 .LED	Air Discharge
	9. G Out	Contact Discharge	19. Button	Air Discharge
	10. B Out	Contact Discharge		

Please refer to the Photos of ESD Test Points (1) Points 1~17 for Contact Discharge.
(2) Points 18~19 for Air Discharge, that points can't be discharged by testing ESD gun, so it's no affection.

Note: Due to the EUT only conductive surfaces. It's unnecessary to test air discharge.

8. RF FIELD STRENGTH IMMUNITY TEST

8.1. Test Equipment

8.1.1. For 80MHz ~ 1000MHz

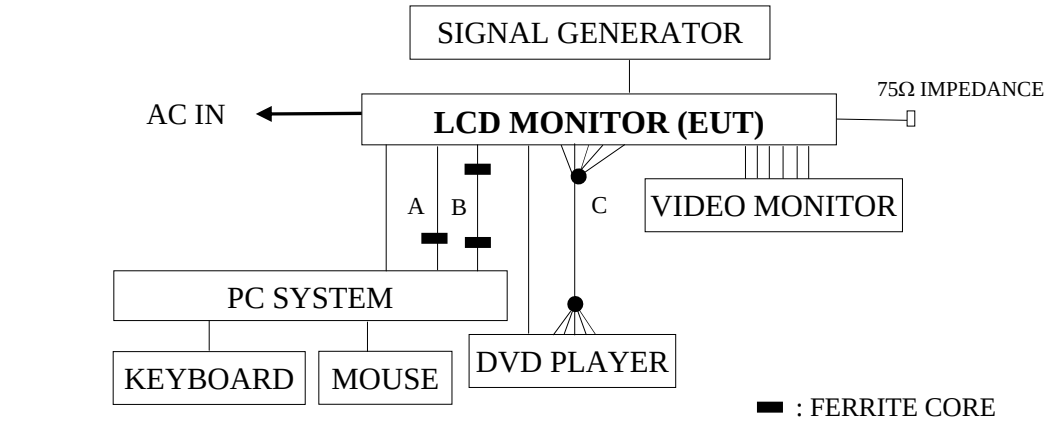
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Signal Generator	R&S	SML03	103251	May 04, 07’	May 03, 08’
2.	Power Amplifier	A & R	25W1000M7	13261	N/A	N/A
3.	Power Sensor	Agilent	E9327A	US40441766	Feb. 26, 07’	Feb. 25, 08’
4.	Power Monitor	Agilent	E4417A	GB41291797	Feb. 26, 07’	Feb. 25, 08’
5.	Power Antenna	A & R	AT1080	13002	N/A	N/A
6.	Direction Coupler	A & R	DC6180	19323	Jun. 14, 07’	Jun. 13, 08’

8.1.2. For 1GHz ~ 2.5GHz

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Signal Generator	R&S	SML03	103251	May 04, 07’	May 03, 08’
2.	Power Amplifier	A & R	120SG3	3039655	N/A	N/A
3.	Power Antenna	A & R	AT4002A	304290	N/A	N/A
4.	Power Sensor	Agilent	E9327A	US40441766	Feb. 26, 07’	Feb. 25, 08’
5.	Power Meter	Agilent	E4417A	GB41291797	Feb. 26, 07’	Feb. 25, 08’
6.	Direction Coupler	A/R	DC7144	304087	Jun. 08, 07’	Jun. 07, 08’

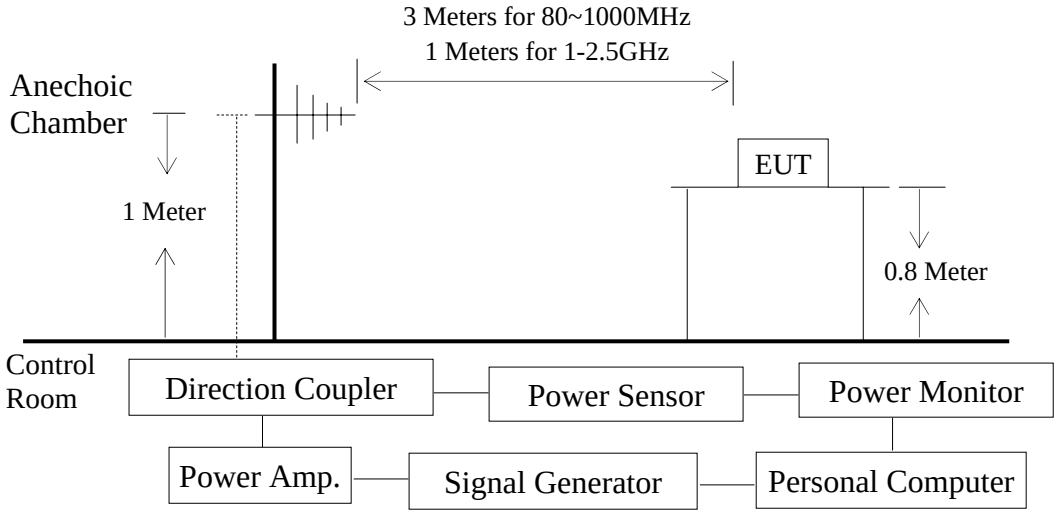
8.2. Block Diagram of Test Setup

8.2.1. Block Diagram of connection between EUT and simulators.



A : DVI CABLE
B : D-SUB CABLE
C : BNC CABLE (Video Cable*2+Component Cable*3)

8.2.2. R/S Test Setup



8.3. Test Standard

EN 60601-1-2/2001+A1/2006 (IEC 61000-4-3/2006)

8.4. Severity Levels and Performance Criterion

Equipment and systems that are not life-supporting equipment and systems except as specified in EN 60601-1-2 section 36.202.3 a) 3) or in the exclusion band as specified in EN 60601-1-2 section 36.202.3 a) 4) shall comply with the requirements of EN 60601-1-2 section 36.202.1 j) at an immunity test level of 3V/m over the frequency rang 80MHz to 2.5GHz.

8.5. EUT's Configuration during Compliance Measurement

The configuration of EUT is listed in section 6.4.

8.6. Operating Condition of EUT

Same as conducted measurement which is listed in 3.5. except the test set up replaced by section 8.2.

8.7. Test Procedure

The field sensor is placed on the EUT table (0.8 meter above the ground) which is 3 or 1 meters away from the transmitting antenna. Through the signal generator, power amplifier and transmitting antenna to produce a uniformity field strength (3V/m measured by field sensor) around the EUT table from frequency range 80 - 1000 MHz & 1000 - 2500MHz and records the signal generator's output level at the same time for whole measured frequency range. Then, put EUT and its simulators on the EUT turn table and keep them 3 meters away from the transmitting antenna which is mounted on an antenna tower and fixes at 1 meter height above the ground. Using the recorded signal generator's output level to measure the EUT from frequency range 80 - 1000 MHz & 1000 - 2500MHz and both horizontal & vertical polarization of antenna must be set and measured. Each of the four sides of EUT must be faced this transmitting antenna and measures individually.

A CCD camera was put inside the chamber and through its display to monitor the EUT operational situation to judge the EUT Compliance criterion during measurement.

All the scanning conditions are as follows：

Condition of Test	Remarks
1. Field Strength	3 V/m
2. Amplitude Modulated	1kHz, 80%AM
3. Scanning Frequency	80 - 1000 MHz & 1000 - 2500MHz
4. Step Size	1% increments
5. The Rate of Sweep	0.0015 decade/s
6. Dwell Time	3 Sec.

8.8. Test Results

PASSED.

EUT with following test mode was performed during this section testing and all the test results are attached in next page.

Mode	Input	Display, Resolution/ Frequency
1.	D-Sub	H Pattern, 1280*1024/75Hz
2.	DVI	H Pattern, 1280*1024/60Hz
3.	S IN	Color Bar Image
4.	AV IN	Color Bar Image
5.	COMPONENT VIDEO IN	Color Bar Image
6.	SDI IN	Color Bar Image

RF Field Strength Immunity Test Results

AUDIX TECHNOLOGY CORPORATION

Date：09/04/2007

Applicant： DIVA Laboratories Ltd.	Test Date： Aug. 29, 2007
EUT： LCD Monitor	Temperature： 29 ℃
Power Supply： AC 230V, 50Hz	Humidity： 45 %
Working Condition： Operating	Test Model： ER-191

Test Modes：(1)D-Sub, H Pattern, 1280*1024/75Hz (2)DVI, H Pattern, 1280*1024/60Hz
(3)S IN, Color Bar Image (4)AV IN, Color Bar Image
(5)COMPONENT IN, Color Bar Image (6)SDI IN, Color Bar Image

Frequency Range	Position (Angle)	Polarity (H or V)	Field Strength (V/m)	Results
80 ~ 1000 (MHz)	0 °	H	3V/m+Modulated	**Pass**
80 ~ 1000 (MHz)	90 °	H	3V/m+Modulated	**Pass**
80 ~ 1000 (MHz)	180 °	H	3V/m+Modulated	**Pass**
80 ~ 1000 (MHz)	270 °	H	3V/m+Modulated	**Pass**
80 ~ 1000 (MHz)	0 °	V	3V/m+Modulated	**Pass**
80 ~ 1000 (MHz)	90 °	V	3V/m+Modulated	**Pass**
80 ~ 1000 (MHz)	180 °	V	3V/m+Modulated	**Pass**
80 ~ 1000 (MHz)	270 °	V	3V/m+Modulated	**Pass**
1 ~ 2.5 (GHz)	0 °	H	3V/m+Modulated	**Pass**
1 ~ 2.5 (GHz)	90 °	H	3V/m+Modulated	**Pass**
1 ~ 2.5 (GHz)	180 °	H	3V/m+Modulated	**Pass**
1 ~ 2.5 (GHz)	270 °	H	3V/m+Modulated	**Pass**
1 ~ 2.5 (GHz)	0 °	V	3V/m+Modulated	**Pass**
1 ~ 2.5 (GHz)	90 °	V	3V/m+Modulated	**Pass**
1 ~ 2.5 (GHz)	180 °	V	3V/m+Modulated	**Pass**
1 ~ 2.5 (GHz)	270 °	V	3V/m+Modulated	**Pass**

Remark: No error occurred.

9. ELECTRICAL FAST TRANSIENT/BURST IMMUNITY TEST

9.1. Test Equipment

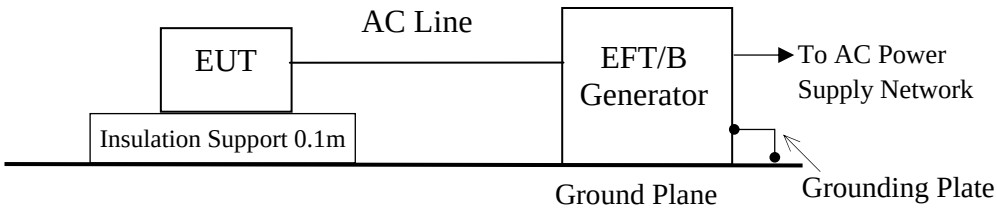
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Control Center	Keytek	E103	9506267	N/A	N/A
2.	EFT Generator	Keytek	E411	9506182	Jun. 13, 07’	Jun. 12, 08’
3.	EFT Coupler / Decoupler	Keytek	E4551	9506216	Jun. 13, 07’	Jun. 12, 08’

9.2. Block Diagram of Test Setup

9.2.1. Block Diagram of connection between EUT and simulators.

Same as Section 8.2.1.

9.2.2. EFT Test Setup



Remark: Combination wave generator and decoupling networks are included in test.

9.3. Test Standard

EN 60601-1-2/2001+A1/2006 (IEC 61000-4-4/2006)

9.4. Severity Levels and Performance Criterion

Equipment and systems shall comply with the requirements of EN 60601-1-2 section 36.202.1 j) at immunity test level of ±2kV for a.c. and d.c. power lines and ±1kV for signal and interconnecting cables.

9.5. EUT’s Configuration during Compliance Measurement

The configuration of EUT is listed in section 6.4.

9.6. Operating Condition of EUT

Same as conducted measurement which is listed in 3.5. except the test set up replaced by section 9.2.

9.7. Test Procedure

The EUT and its simulators and all cables were placed 0.1m high above the ground reference plane which was a min. 1m*1m metallic sheet with 0.65mm minimum thickness. This reference ground plane shall project beyond the EUT by at least 0.1m on all sides and the minimum distance between EUT and all other conductive structure, except the ground plane beneath the EUT, shall be more than 0.5m.

9.7.1. For input and output AC power ports：

The EUT was connected to the power mains by using a coupling device which couples the EFT interference signal to AC power lines, and the length of the power line between the coupling device and the EUT shall be 0.5m or less. Both polarities of the test voltage should be applied during compliance test and the duration of the test can‘t less than 1min.

9.7.2. For signal lines and control lines ports：

The interface cables‘ length is less than 3m, therefore, it’s unnecessary to measure.

9.7.3. For DC input and DC output power ports：

No DC ports. It‘s unnecessary to measure.

9.8. Test Results

PASSED.

EUT with following test mode was performed during this section testing and all the test results are attached in next page.

Mode	Input	Display, Resolution/ Frequency
1.	D-Sub	H Pattern, 1280*1024/75Hz
2.	DVI	H Pattern, 1280*1024/60Hz
3.	S IN	Color Bar Image
4.	AV IN	Color Bar Image
5.	COMPONENT VIDEO IN	Color Bar Image
6.	SDI IN	Color Bar Image

Electrical Fast Transient/Burst Immunity Test Results

AUDIX TECHNOLOGY CORPORATION

Date：09/04/2007

Applicant： DIVA Laboratories Ltd.	Test Date： Aug. 28, 2007
EUT： LCD Monitor	Temperature： 24 ℃
Power Supply： AC 230V, 50Hz	Humidity： 49 %
Working Condition： Operating	Test Model： ER-191

Test Modes：(1)D-Sub, H Pattern, 1280*1024/75Hz (2)DVI, H Pattern, 1280*1024/60Hz
(3)S IN, Color Bar Image (4)AV IN, Color Bar Image
(5)COMPONENT IN, Color Bar Image (6)SDI IN, Color Bar Image

Inject Place: Power Supply Line					Inject Place : I/O Cable				
Inject Line	Voltage kV	Inject Time(s)	Inject Method	Results	Inject Line	Voltage kV	Inject Time(s)	Inject Method	Results
L1	+0.5；1；2	60	Direct	**Pass**				Direct	
L1	−0.5；1；2	60	Direct	**Pass**				Clamp	
L1, L2	+0.5；1；2	60	Direct	**Pass**				Direct	
L1, L2	−0.5；1；2	60	Direct	**Pass**				Clamp	
L1, PE	+0.5；1；2	60	Direct	**Pass**				Direct	
L1, PE	−0.5；1；2	60	Direct	**Pass**				Clamp	
L1, L2, PE	+0.5；1；2	60	Direct	**Pass**				Direct	
L1, L2, PE	−0.5；1；2	60	Direct	**Pass**				Clamp	
L2	+0.5；1；2	60	Direct	**Pass**				Direct	
L2	−0.5；1；2	60	Direct	**Pass**				Clamp	
L2, PE	+0.5；1；2	60	Direct	**Pass**				Direct	
L2, PE	−0.5；1；2	60	Direct	**Pass**				Clamp	
PE	+0.5；1；2	60	Direct	**Pass**				Direct	
PE	−0.5；1；2	60	Direct	**Pass**				Clamp	

Remark: No error occurred.

10. SURGE IMMUNITY TEST

10.1. Test Equipment

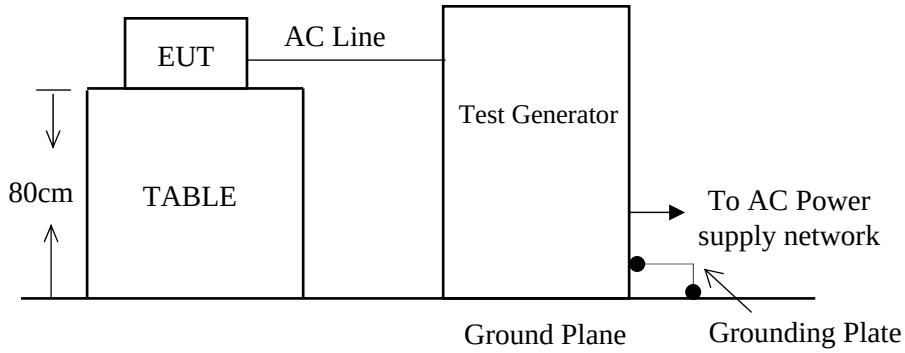
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Control Center	Keytek	E103	9506267	N/A	N/A
2.	Surge Combination Wave	Keytek	E501A	9506272	Jun. 13, 07’	Jun. 12, 08’
3.	Surge Coupler/ Decoupler	Keytek	E4551	9506216	Jun. 13, 07’	Jun. 12, 08’

10.2. Block Diagram of Test Setup

10.2.1. Block Diagram of connection between EUT and simulators.

Same as Section 8.2.1.

10.2.2. Test Setup



Remark: Test generator includes control center、surge combination and coupler.

10.3. Test Standard

EN 60601-1-2/2001+A1/2006 (IEC 61000-4-5/2005)

10.4. Severity Levels and Performance Criterion

Equipment and systems shall comply with the requirements of EN 60601-1-2 section 36.202.1 j) at immunity test levels of ±0.5kV, ±1kV and ±2kV for a.c. power lines(s) to ground and ±0.5kV and ±1kV for a.c. power lines(s).

10.5. EUT’s Configuration during Compliance Measurement

The configuration of EUT is listed in section 6.4.

10.6. Operating Condition of EUT

Same as conducted measurement which is listed in 3.5. except the test set up replaced by section 10.2.

10.7. Test Procedure

10.7.1. Set up the EUT and test generator as shown on section 10.2.

10.7.2. For line to line coupling mode, provided a 0.5kV/1kV 1.2/50μs current surge (at open-circuit condition) and 8/20μs current surge to EUT selected points.

10.7.3. At least 5 positive and 5 negative (polarity) tests with a maximum 1/min repetition rate were conducted during test.

10.7.4. Different phase angles were done individually.

10.7.5. Repeat procedures 10.7.2 to 10.7.4 except the open-circuit test voltage change from 0.5kV/1kV/2kV for line to earth coupling mode test.

10.7.6. Record the EUT operating situation during compliance test and decide the EUT immunity criterion for above each test.

10.8. Test Results

PASSED.

EUT with following test mode was performed during this section testing and all the test results are attached in next page.

Mode	Input	Display, Resolution/ Frequency
1.	D-Sub	H Pattern, 1280*1024/75Hz
2.	DVI	H Pattern, 1280*1024/60Hz
3.	S IN	Color Bar Image
4.	AV IN	Color Bar Image
5.	COMPONENT VIDEO IN	Color Bar Image
6.	SDI IN	Color Bar Image

Surge Immunity Test Results

AUDIX TECHNOLOGY CORPORATION

Date：09/04/2007

Applicant： DIVA Laboratories Ltd.	Test Date： Aug. 28, 2007
EUT： LCD Monitor	Temperature： 24 ℃
Power Supply： AC 230V, 50Hz	Humidity： 49 %
Working Condition： Operating	Test Model： ER-191

Test Modes：(1)D-Sub, H Pattern, 1280*1024/75Hz (2)DVI, H Pattern, 1280*1024/60Hz
(3)S IN, Color Bar Image (4)AV IN, Color Bar Image
(5)COMPONENT IN, Color Bar Image (6)SDI IN, Color Bar Image

Input And Output AC Power Port

Location	Polarity	Phase Angle	No of Pulse	Pulse Voltage (kV)	Results
L-N	+	0	5	0.5kV, 1kV	**Pass**
	+	90	5	0.5kV, 1kV	**Pass**
	+	180	5	0.5kV, 1kV	**Pass**
	+	270	5	0.5kV, 1kV	**Pass**
	-	0	5	0.5kV, 1kV	**Pass**
	-	90	5	0.5kV, 1kV	**Pass**
	-	180	5	0.5kV, 1kV	**Pass**
	-	270	5	0.5kV, 1kV	**Pass**
L-PE	+	0	5	0.5kV, 1kV, 2kV	**Pass**
	+	90	5	0.5kV, 1kV, 2kV	**Pass**
	+	180	5	0.5kV, 1kV, 2kV	**Pass**
	+	270	5	0.5kV, 1kV, 2kV	**Pass**
	-	0	5	0.5kV, 1kV, 2kV	**Pass**
	-	90	5	0.5kV, 1kV, 2kV	**Pass**
	-	180	5	0.5kV, 1kV, 2kV	**Pass**
	-	270	5	0.5kV, 1kV, 2kV	**Pass**
N-PE	+	0	5	0.5kV, 1kV, 2kV	**Pass**
	+	90	5	0.5kV, 1kV, 2kV	**Pass**
	+	180	5	0.5kV, 1kV, 2kV	**Pass**
	+	270	5	0.5kV, 1kV, 2kV	**Pass**
	-	0	5	0.5kV, 1kV, 2kV	**Pass**
	-	90	5	0.5kV, 1kV, 2kV	**Pass**
	-	180	5	0.5kV, 1kV, 2kV	**Pass**
	-	270	5	0.5kV, 1kV, 2kV	**Pass**
L, N-PE	+	0	5	0.5kV, 1kV, 2kV	**Pass**
	+	90	5	0.5kV, 1kV, 2kV	**Pass**
	+	180	5	0.5kV, 1kV, 2kV	**Pass**
	+	270	5	0.5kV, 1kV, 2kV	**Pass**
	-	0	5	0.5kV, 1kV, 2kV	**Pass**
	-	90	5	0.5kV, 1kV, 2kV	**Pass**
	-	180	5	0.5kV, 1kV, 2kV	**Pass**
	-	270	5	0.5kV, 1kV, 2kV	**Pass**

Remark：No error occurred.

11. CONDUCTED DISTURBANCE IMMUNITY TEST

11.1. Test Equipment

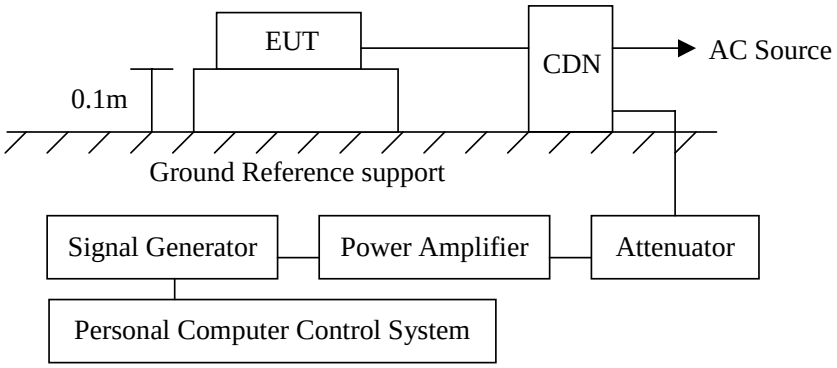
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Signal Generator	R&S	SML03	103251	May 04, 07’	May 03, 08’
2.	Power Amplifier	A & R	25A250A	18199	N/A	N/A
3.	Power Meter	HP	436A	2236A13620	Oct. 29, 06’	Oct. 28, 07’
4.	Power Sensor	HP	8482B	3318A05483	Oct. 30, 06’	Oct. 29, 07’
5.	Attenuator	Weinschel	40-6-34	LJ093	Aug. 17, 06’	Aug. 16, 07’
6.	CDN-M3	Fischer	FCC-801-M3-25A	9961	Mar. 03, 07’	Mar. 01, 08’
7.	EM Injection Clamp	Fischer	F-203I-23MM	332	May 25, 07’	May 24, 08’

11.2. Block Diagram of Test Setup

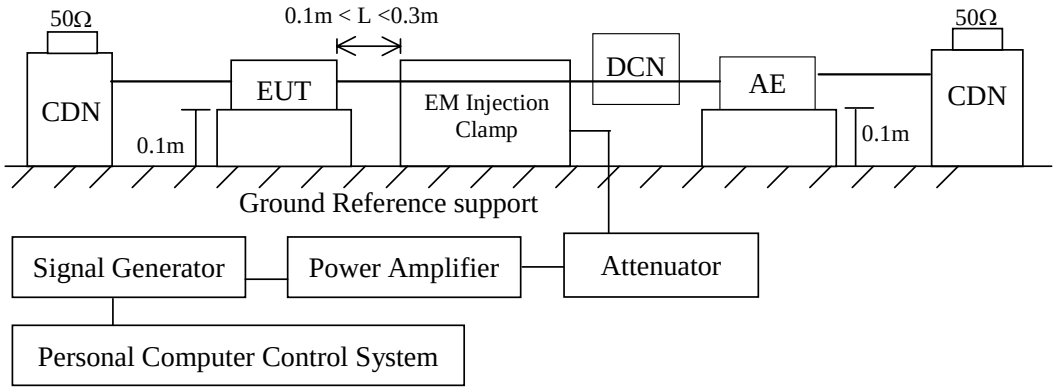
11.2.1. Block Diagram of connection between EUT and simulators.

Same as Section 8.2.1.

11.2.2. Common Mode Test Setup



11.2.3. EM Clamp Mode Test Setup



11.3. Test Standard

EN 60601-1-2/2001+A1/2006 (IEC 61000-4-6/2006)

11.4. Severity Levels and Performance Criterion

Equipment and systems that are not life-supporting equipment, except as specified in EN 60601-1-2 section 36.202.6 a) 3), 4) and 5), shall comply with the requirements of EN 60601-1-2 section 36.202.1 j) at an immunity test level of 3Vrms over the frequency rang 150kHz to 80MHz.

11.5. EUT's Configuration during Compliance Measurement

The configuration of EUT is listed in section 6.4.

11.6. Operating Condition of EUT

Same as conducted measurement which is listed in 3.5. except the test set up replaced by section 11.2.

11.7. Test Procedure

** For AC Power Line **

11.7.1. Set up the EUT, CDN and test generators as shown on section 11.2.2.

11.7.2. The EUT and supporting equipment were placed on an insulating support 0.1m high above a ground reference plane. CDN (coupling and decoupling device) was placed on the ground plane making contact with it at about 0.1-0.3m from EUT. Cables between CDN and EUT were as short as possible.

11.7.3. The disturbance signal described below was injected to EUT through CDN.

11.7.4. The EUT operates within its operational mode(s) under intended climatic conditions after power on.

11.7.5. The frequency range was swept from 150kHz to 80MHz using 3V signal level, and with the disturbance signal 80% amplitude modulated with a 1kHz sine wave.

11.7.6. The rate of sweep shall not exceed 1.5*10^3decades/s. Where the frequency was swept incrementally, the step size shall not exceed 1% of the start and thereafter 1% of the preceding frequency value.

11.7.7. Recording the EUT operating situation during compliance testing and decide the EUT immunity criterion.

** For I/O Port **

11.7.8. Set up the EUT, EM Injection Clamp and test generators as shown on section 11.2.3.

11.7.9. The EUT and supporting equipment were placed on an insulating support 0.1m high above a ground reference plane. EM Injection Clamp (coupling and decoupling device) was placed on the ground plane making contact with it at about 0.1-0.3m from EUT. Cables between EM Injection Clamp and EUT were as short as possible.

11.7.10. The DCN was placed on between AE and EUT. The EUT and AE of power through CDN, CDN terminated with 50Ω at the RF disturbance input port.

11.7.11. The disturbance signal described below was injected to EUT through EM Injection Clamp.

11.7.12. Repeat above procedure from 11.7.9. to 11.7.11.

11.8. Test Results

PASSED.

EUT with following test mode was performed during this section testing and all the test results are attached in next page.

Mode	Input	Display, Resolution/ Frequency
1.	D-Sub	H Pattern, 1280*1024/75Hz
2.	DVI	H Pattern, 1280*1024/60Hz
3.	S IN	Color Bar Image
4.	AV IN	Color Bar Image
5.	COMPONENT VIDEO IN	Color Bar Image
6.	SDI IN	Color Bar Image

Conducted Disturbance Immunity Test Results

AUDIX TECHNOLOGY CORPORATION

Date：09/04/2007

Applicant： DIVA Laboratories Ltd.	Test Date： Aug. 29, 2007
EUT： LCD Monitor	Temperature： 29 ℃
Power Supply： AC 230V, 50Hz	Humidity： 45 %
Working Condition： Operating	Test Model： ER-191

Test Modes：(1)D-Sub, H Pattern, 1280*1024/75Hz (2)DVI, H Pattern, 1280*1024/60Hz
(3)S IN, Color Bar Image (4)AV IN, Color Bar Image
(5)COMPONENT IN, Color Bar Image (6)SDI IN, Color Bar Image

Frequency Range (MHz)	Injected Position	Strength	Results
0.15MHz ~ 80MHz	Main (AC Power Line)	3V(rms) Modulated	**Pass**
0.15MHz ~ 80MHz	I/O (SDI Cable to 75Ω Impedance)	3V(rms) Modulated	**Pass**
0.15MHz ~ 80MHz	I/O (DVI Cable to PC)	3V(rms) Modulated	**Pass**
0.15MHz ~ 80MHz	I/O (D-Sub Cable to PC)	3V(rms) Modulated	**Pass**
0.15MHz ~ 80MHz	I/O (RS232 Cable to PC)	3V(rms) Modulated	**Pass**
0.15MHz ~ 80MHz	I/O (S-Video Cable to DVD)	3V(rms) Modulated	**Pass**
0.15MHz ~ 80MHz	I/O (SDI Cable to Signal Generator)	3V(rms) Modulated	**Pass**
0.15MHz ~ 80MHz	I/O (S-Video Cable to Color Video Monitor)	3V(rms) Modulated	**Pass**
0.15MHz ~ 80MHz	I/O (Video Cable*2 to Color Video Monitor)	3V(rms) Modulated	**Pass**
0.15MHz ~ 80MHz	I/O (Component Cable*3 to Color Video Monitor)	3V(rms) Modulated	**Pass**
0.15MHz ~ 80MHz	I/O [BNC Cable (Video Cable*2+Component Cable*3) to DVD]	3V(rms) Modulated	**Pass**

Remark: 1. No error occurred.
2. Modulation Signal:1kHz 80% AM.

12. POWER FREQUENCY MAGNETIC FIELD IMMUNITY TEST

12.1. Test Equipment

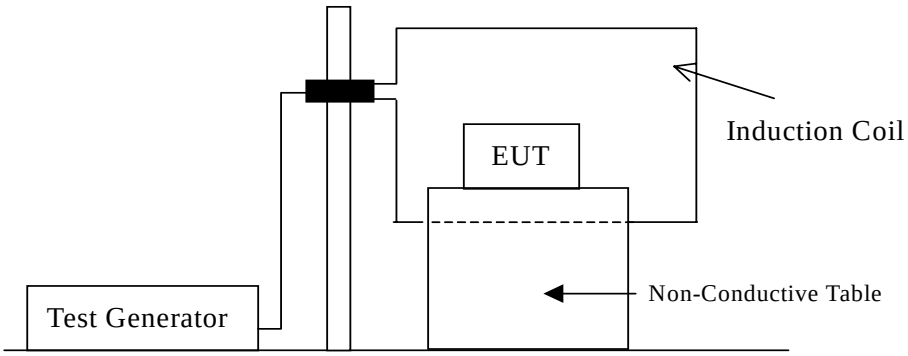
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Magnetic Field Generator	Hafely	MAG 100.1	080015-01	Nov. 27, 06'	Nov. 26, 07'

12.2. Block Diagram of Test Setup

12.2.1. Block Diagram of connection between EUT and simulators.

Same as Section 8.2.1.

12.2.2. Test Setup



12.3. Test Standard

EN 60601-1-2/2001+A1/2006 (IEC 61000-4-8/2001)

12.4. Severity Levels and Performance Criterion

Equipment and systems shall comply with the requirements of EN 60601-1-2 section 36.202.1 j) at immunity test level of 3 A/m.

12.5. EUT's Configuration during Compliance Measurement

The configuration of EUT is listed in section 6.4.

12.6. Operating Condition of EUT

Same as conducted measurement which is listed in 3.5. except the test set up replaced by section 12.2.

12.7. Test Procedure

The EUT placed on 1m high table that above the ground reference plane which the min. size 1m x 1m and 0.65mm thickness metallic. And subjected to the test magnetic field by using the induction coil of standard dimensions (1m x 1m). The induction coil rotated by 90 degrees in order to expose the EUT to the test field with different orientations. All cables of EUT exposed to magnetic field for 1m of their length.

12.8. Test Results

PASSED.

EUT with following test mode was performed during this section testing and all the test results are attached in next page.

Mode	Input	Display, Resolution/ Frequency
1.	D-Sub	H Pattern, 1280*1024/75Hz
2.	DVI	H Pattern, 1280*1024/60Hz
3.	S IN	Color Bar Image
4.	AV IN	Color Bar Image
5.	COMPONENT VIDEO IN	Color Bar Image
6.	SDI IN	Color Bar Image

Power Frequency Magnetic Field Immunity Test Results

AUDIX TECHNOLOGY CORPORATION

Date: 09/04/2007

Applicant： DIVA Laboratories Ltd.	Test Date： Aug. 28, 2007
EUT： LCD Monitor	Temperature： 24 ℃
Power Supply： AC 230V, 50Hz	Humidity： 49 %
Working Condition： Operating	Test Model： ER-191

Test Modes：(1)D-Sub, H Pattern, 1280*1024/75Hz (2)DVI, H Pattern, 1280*1024/60Hz
(3)S IN, Color Bar Image (4)AV IN, Color Bar Image
(5)COMPONENT IN, Color Bar Image (6)SDI IN, Color Bar Image

Power Frequency Magnetic Field	Testing Duration	Coil Orientation	Test Result
50Hz/60Hz, 3 A/m	1 Min	X-axis	**Pass**
50Hz/60Hz, 3 A/m	1 Min	Y-axis	**Pass**
50Hz/60Hz, 3 A/m	1 Min	Z-axis	**Pass**

Remark：No error occurred.

13. VOLTAGE DIPS AND INTERRUPTIONS IMMUNITY TEST

13.1. Test Equipment

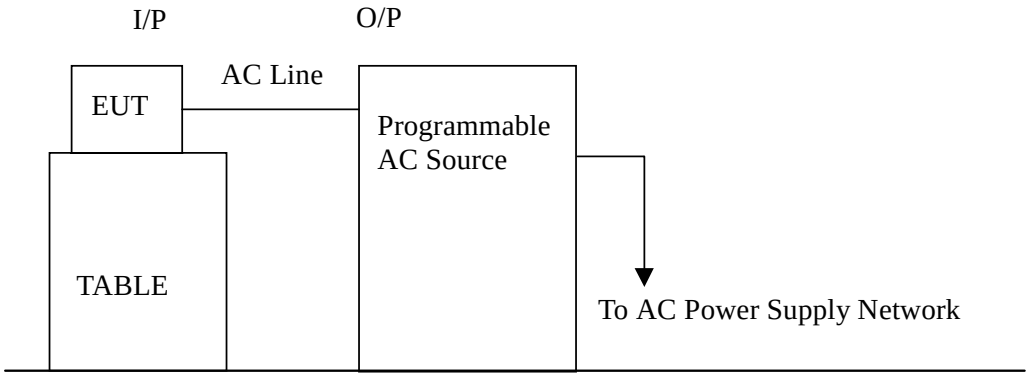
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Programmable Power Source	Chroma	6590	65900086	Apr. 09, 07'	Apr. 08, 08'

13.2. Block Diagram of Test Setup

13.2.1. Block Diagram of connection between EUT and simulators.

Same as Section 8.2.1.

13.2.2. Test Setup



13.3. Test Standard

EN 60601-1-2/2001+A1/2006 (IEC 61000-4-11/2004)

13.4. Severity Levels and Performance Criterion

13.4.1. Equipment and systems with a rated input power of 1 kVA or less shall comply with the requirements of EN 60601-1-2 section 36.202.1 j) at immunity test levels specified in following table.

Immunity Test Level for Voltage Dips

Voltage Test level % U_T	Voltage dip % U_T	Duration periods
<5	>95	0.5
40	60	5
70	30	25
NOTE U_T is the a.c. mains voltage prior to application of the test level		

13.4.2. Equipment and systems are allowed a deviation from the requirements of EN 60601-1-2 section 36.202.1 j) at immunity test level specified in following table.

Immunity Test Level for Voltage Interruption

Voltage Test level % U_T	Voltage dip % U_T	Duration s
<5	>95	0.5
NOTE U_T is the a.c. mains voltage prior to application of the test level		

13.5. EUT's Configuration during Compliance Measurement

The configuration of EUT is listed in section 6.4.

13.6. Operating Condition of EUT

Same as conducted measurement which is listed in 3.5. except the test set up replaced by section 13.2.

13.7. Test Procedure

13.7.1. Set up the EUT and test generator as shown on section 13.2.

13.7.2. The interruptions was introduced at selected phase angles with specified duration. There was a 10s minimum interval between each test event.

13.7.3. After each test a full functional check was performed before the next test.

13.7.4. Repeat procedures 13.7.2. & 13.7.3. for voltage dips, only the test level and duration was changed.

13.7.5. Record any degradation of performance.

13.8. Test Results

PASSED.

EUT with following test mode was performed during this section testing and all the test results are attached in next page.

Mode	Input	Display, Resolution/ Frequency
1.	D-Sub	H Pattern, 1280*1024/75Hz
2.	DVI	H Pattern, 1280*1024/60Hz
3.	S IN	Color Bar Image
4.	AV IN	Color Bar Image
5.	COMPONENT VIDEO IN	Color Bar Image
6.	SDI IN	Color Bar Image

Voltage Dips And Interruptions Immunity Test Results

AUDIX TECHNOLOGY CORPORATION

Date：09/04/2007

Applicant： DIVA Laboratories Ltd.	Test Date： Aug. 28, 2007
EUT： LCD Monitor	Temperature： 24 ℃
Power Supply： AC 100-240V, 50Hz	Humidity： 49 %
Working Condition： Operating	Test Model： ER-191

Test Modes：(1)D-Sub, H Pattern, 1280*1024/75Hz (2)DVI, H Pattern, 1280*1024/60Hz
(3)S IN, Color Bar Image (4)AV IN, Color Bar Image
(5)COMPONENT IN, Color Bar Image (6)SDI IN, Color Bar Image

Single Test Voltage

Type of Test	Test Voltage	Phase Angle	% Reduction	Period	Test Results
Voltage Dips	100/230V	0	> 95 %	10	**Pass**
		45	> 95 %	10	**Pass**
		90	> 95 %	10	**Pass**
		135	> 95 %	10	**Pass**
		180	> 95 %	10	**Pass**
		225	> 95 %	10	**Pass**
		270	> 95 %	10	**Pass**
		315	> 95 %	10	**Pass**
Voltage Dips	100/230V	0	60 %	100	**Pass**
		45	60 %	100	**Pass**
		90	60 %	100	**Pass**
		135	60 %	100	**Pass**
		180	60 %	100	**Pass**
		225	60 %	100	**Pass**
		270	60 %	100	**Pass**
		315	60 %	100	**Pass**
	100/230V	0	30 %	500	**Pass**
		45	30 %	500	**Pass**
		90	30 %	500	**Pass**
		135	30 %	500	**Pass**
		180	30 %	500	**Pass**
		225	30 %	500	**Pass**
		270	30 %	500	**Pass**
		315	30 %	500	**Pass**
Voltage Interruption	100/230V	0	> 95 %	5000	**Pass , Note**
		45	> 95 %	5000	**Pass , Note**
		90	> 95 %	5000	**Pass , Note**
		135	> 95 %	5000	**Pass , Note**
		180	> 95 %	5000	**Pass , Note**
		225	> 95 %	5000	**Pass , Note**
		270	> 95 %	5000	**Pass , Note**
		315	> 95 %	5000	**Pass , Note**

Note: The EUT stopped operating temporarily during the voltage Interruption > 95 % test, but it's self-recoverable after testing.

14. PHOTOGRAPHS

14.1. Photos of Conducted Disturbance Measurement

FRONT VIEW OF CONDUCTED MEASUREMENT

BACK VIEW OF CONDUCTED MEASUREMENT

14.2.Photos of Radiated Disturbance Measurement at Semi-Anechoic Chamber

FRONT VIEW OF RADIATED MEASUREMENT

BACK VIEW OF RADIATED MEASUREMENT

14.3.Photos of Radiated Disturbance Measurement at Open Area Test Site

Test Mode: H Pattern, 1280*1024/60Hz (DVI)

FRONT VIEW OF RADIATED MEASUREMENT

BACK VIEW OF RADIATED MEASUREMENT

Test Mode: H Pattern, 1280*1024/60Hz (DVI)

SETUP WITH MAXIMUM DETECTED EMISSION AT HORIZONTAL POLARIZATION

SETUP WITH MAXIMUM DETECTED EMISSION AT VERTICAL POLARIZATION

14.4.Photos of Discontinuous Disturbance Emission Measurement

FRONT VIEW OF DISCONTINUOUS DISTURBANCE EMISSION MEASUREMENT

BACK VIEW OF DISCONTINUOUS DISTURBANCE EMISSION MEASUREMENT

14.5. Photos of Harmonic and Voltage Fluctuations/Flicker Emission Measurement

14.6.Photos of Electrostatic Discharge Immunity Test

Air & Contact Discharge

HCP & VCP Discharge

Photo of ESD Test Points (Front View)

Photo of ESD Test Points (Back View)

Photo of ESD Test Points (I/O Ports)

14.7.Photos of RF Field Strength Immunity Test

Test Frequency Range: 80~1000MHz

FRONT VIEW OF R/S TEST

BACK VIEW OF R/S TEST

Test Frequency Range: 1~2.5GHz

FRONT VIEW OF R/S TEST

BACK VIEW OF R/S TEST

14.8.Photos of Electrical Fast Transient/Burst Immunity Test

14.9.Photos of Surge Immunity Test

14.10.Photos of Conducted Disturbance Immunity Test

Injection Position: Power Supply Line

Injection Position: I/O Cable

Injection Position: I/O Cable (EUT SDI Out)

14.11.Photos of Power Frequency Magnetic Field Immunity Test

14.12.Photos of Voltage Dips and Interruptions Immunity Test

APPENDIX I
(Photos of EUT)

Total Pages: 13 Pages

Figure 1
General Appearance (Front View)

Figure 2
General Appearance (Front & Side View)

Figure 3
General Appearance (Rear View)

Figure 4
General Appearance (Rear & Side View)

Figure 5
General Appearance (Bottom View)

Figure 6
Appearance (I/O Ports)

Figure 7
Internal View (Removed Back Cover)

Figure 8
Internal View

Figure 9
Internal View (Removed Power Board & Main Board)

Figure 10
Internal View (Removed Shield Cover, Power Board/Component View)

Figure 11
Internal View (Power Board/Component View)

Figure 12
Internal View (Power Board/Foil View)

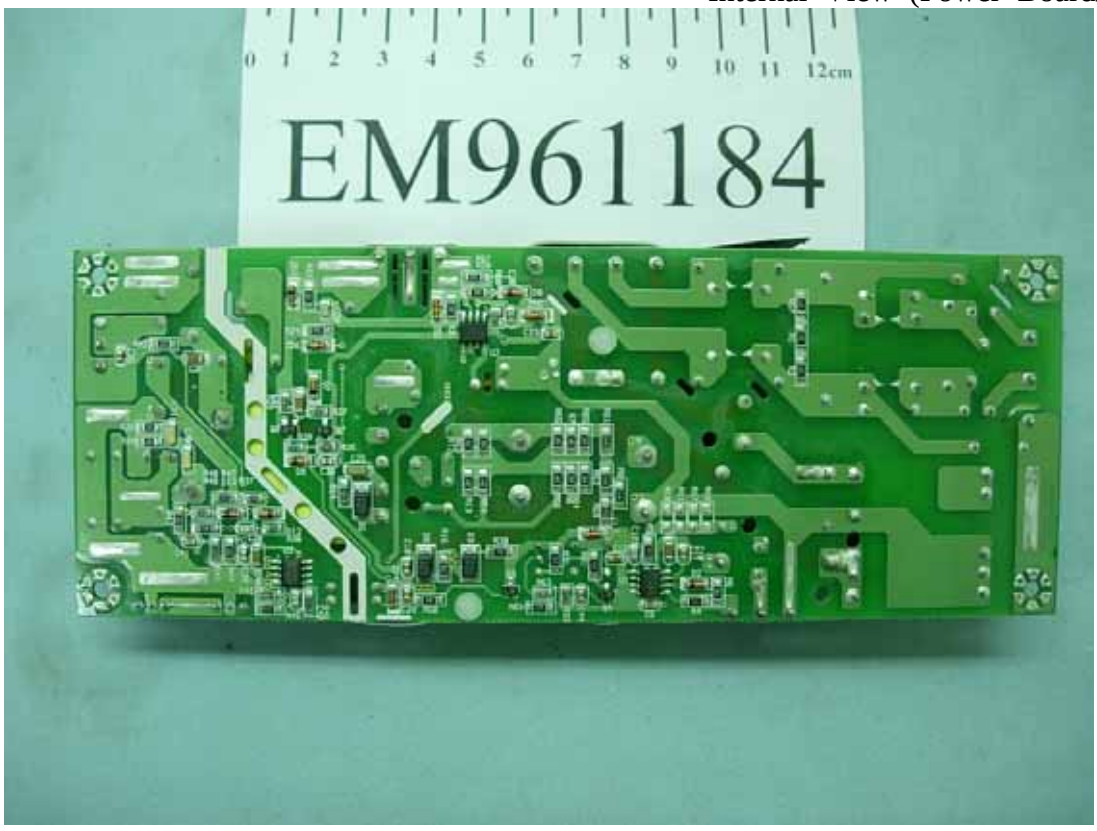


Figure 13
Internal View (Main Board/Component View)

Figure 14
Internal View (Main Board/Foil View)

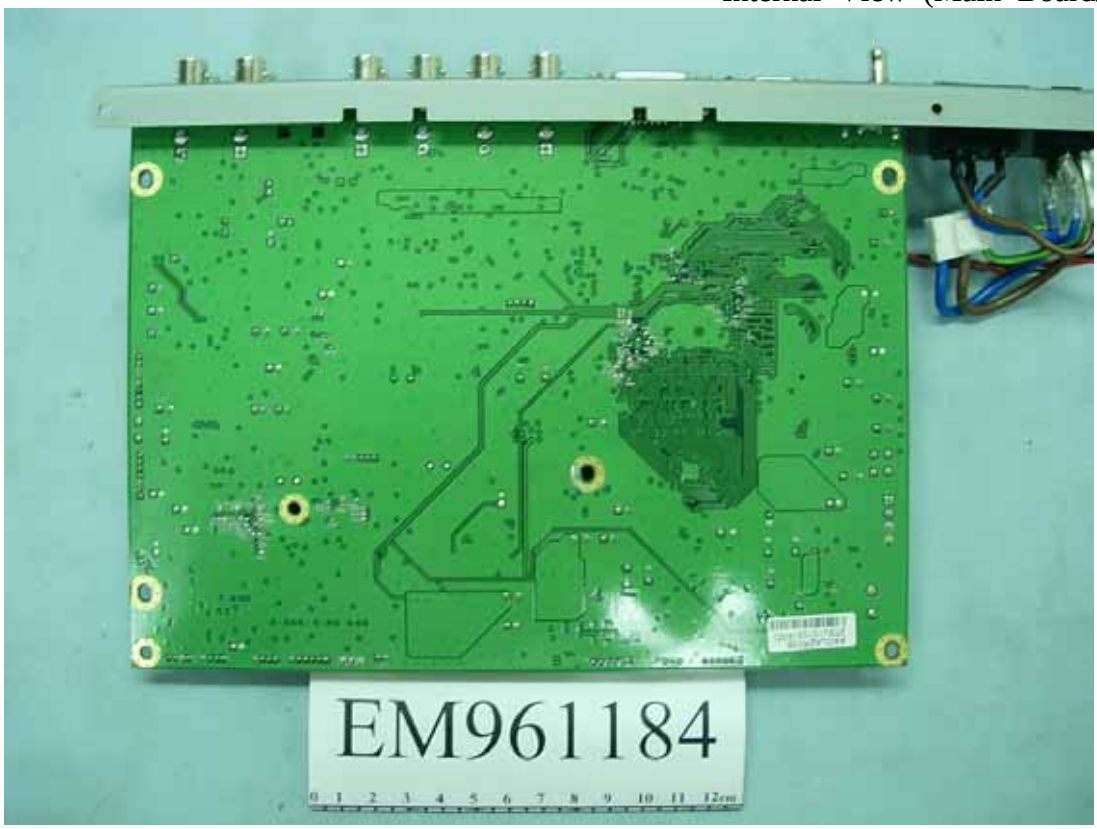


Figure 15
Internal View (Inverter Board/Component View)

Figure 16
Internal View (Inverter Board/Foil View)

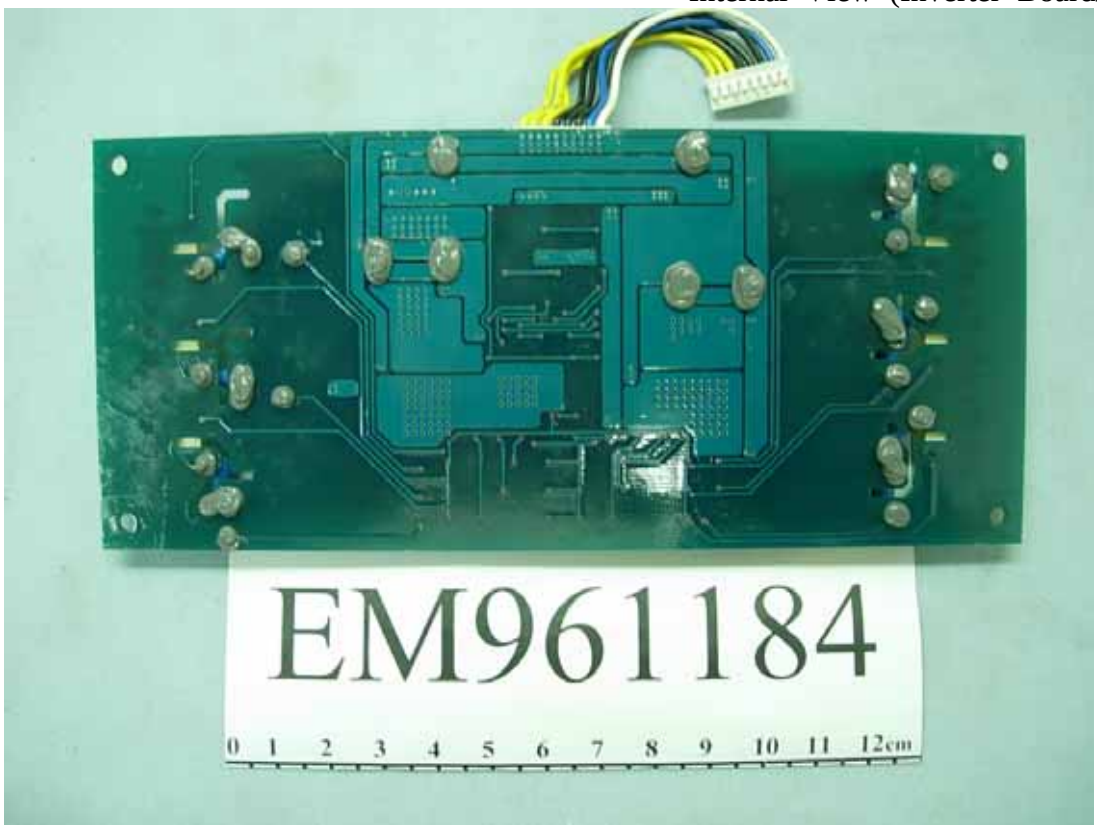


Figure 17
Internal View (Function Control Board/Component View)

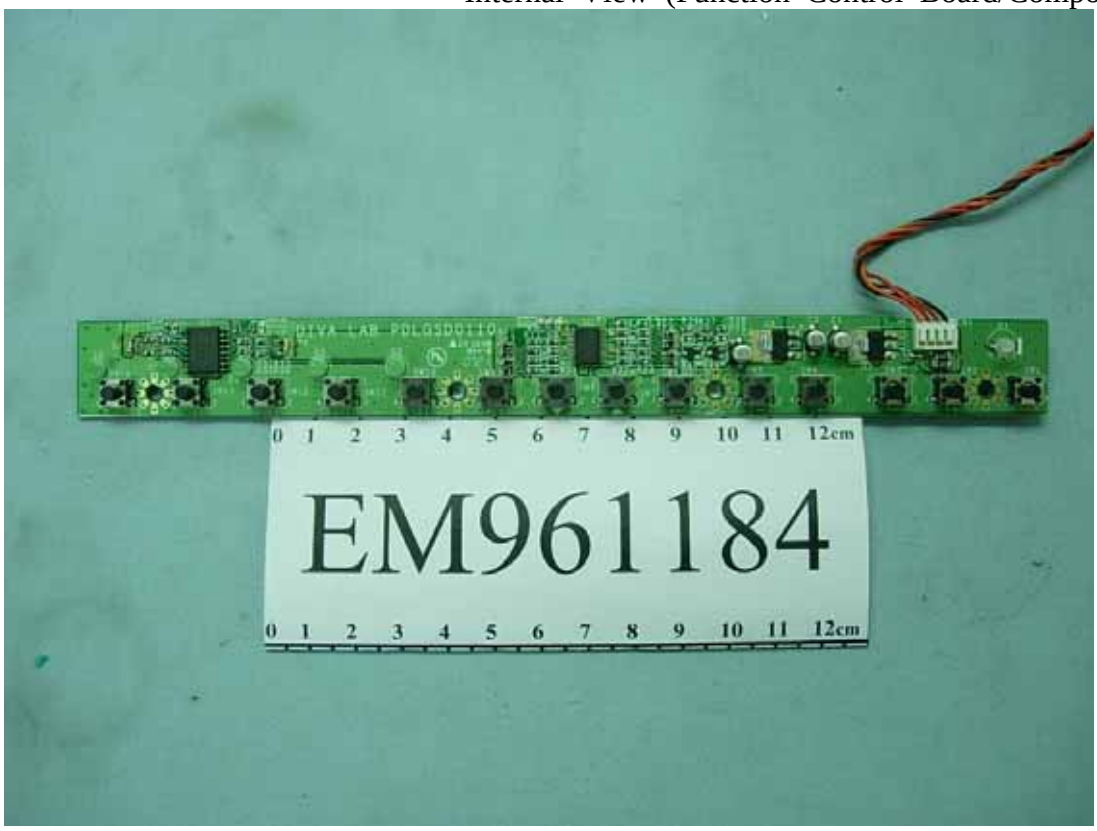


Figure 18
Internal View (Function Control Board/Foil View)

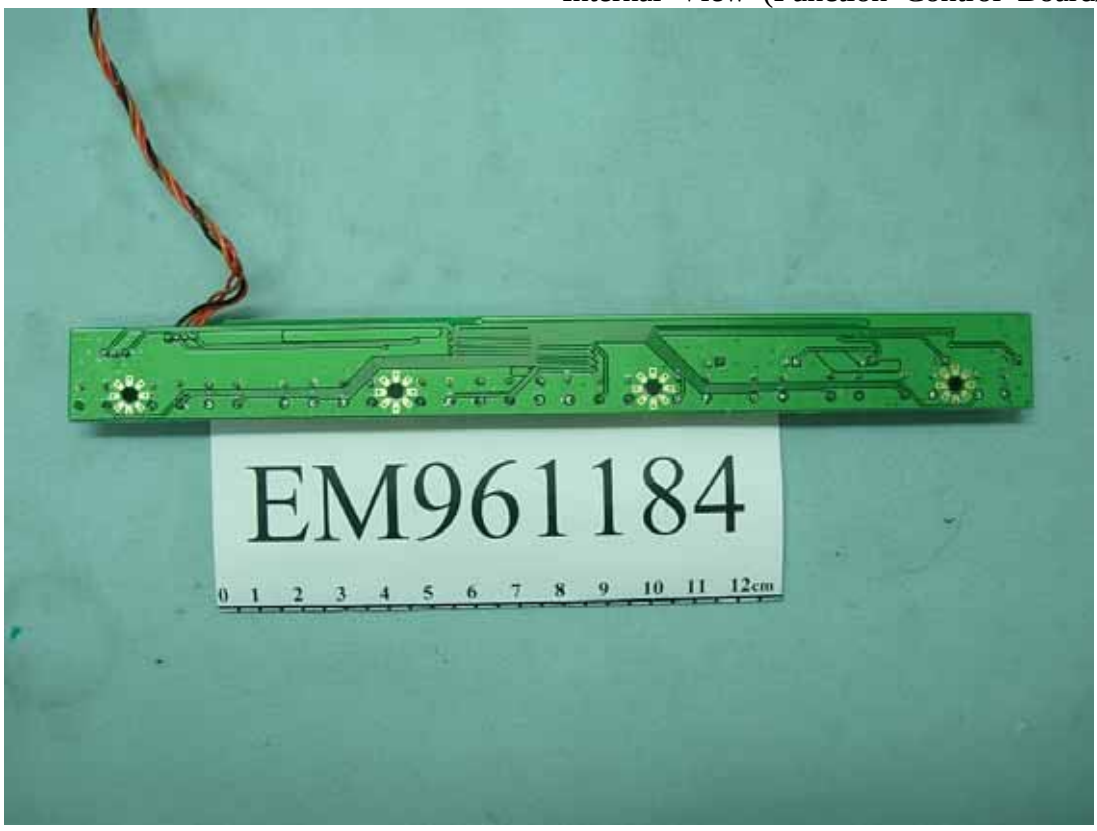


Figure 19
Removed Metal Cover, LCD Panel (Rear View)

Figure 20
LCD Panel (Rear View)

Figure 21
LCD Panel (Label View)

Figure 22
Internal View (Control Board of LCD Panel/Component View)

Figure 23
Internal View (Control Board of LCD Panel/Foil View)

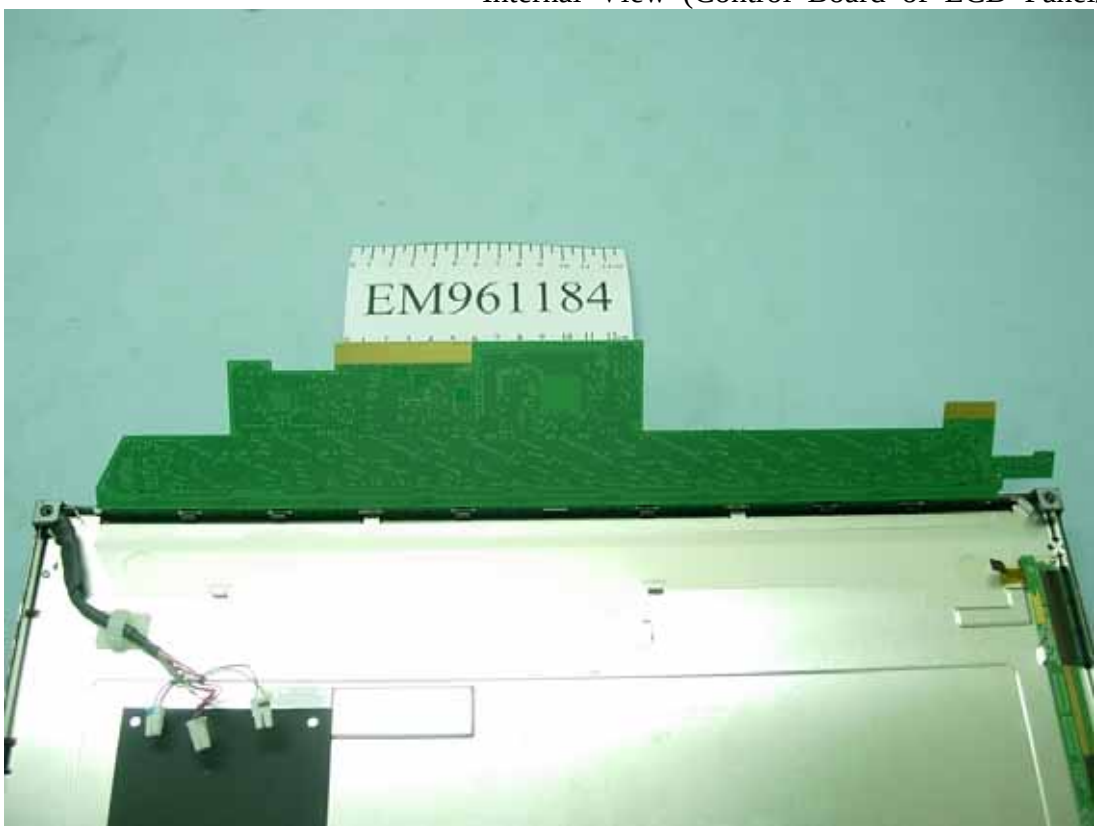


Figure 24
D-Sub Data Cable

Figure 25
DVI Data Cable

Figure 26
BNC Data Cable